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M. Stanback

1987

Hastings Reservation

*Melanerpes formicivorous*







1987 M. Stanback

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M. Formicivorus

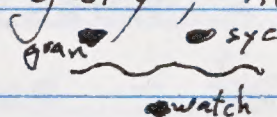
Chongo

HNHR

'86 14 Dec 1100 Acorn count 372 (Walt) 380 me  
A new hole here Facing downhill.

8 Feb 1320 : # holes (roost) Main tree : 5  
sycamore : 7 } 14 holes  
VAOK on hill : 2

Acorns 307

26 Mar 0920 - 1000. Well, well 1110 has company here.  
2 NEBA ♀♀. Thanks Katy. Set up blind for roost  
watch 2-nite. Hint: To census these guys, watch  
from the Buckeye side of the gully, near where  
the riparian vegetation begins.  The  
♀♀ (at least one of em) was-were spending a lot of time  
at the 85 nest hole.

Roosting: 3 birds here (though maybe an extra came by:  
small chase. Twice in the half hour before roosting.  
a bird went to the 85 nest hole and peck-drummed  
at the entrance, and then moved up. Check for mice.

27 Mar Check hole in am. Full of water & shit. Cleaned it out.

31 Mar roost: Katy reports bird in hole upon revival, but they  
roosted elsewhere.

5 April Acorn Count 131 (Roosted in 85 hole)

6 April Ambush at 85 hole failed. Try net + Terry. These  
guys are real homebodies.

9 April Tried netting this afternoon. No luck

1 May 1400 Nice fresh chips, but hole w/o eggs (~~85~~ 85 hole)

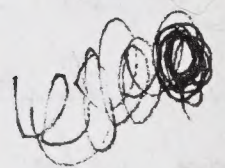
4 May 1330 Still empty : 0 acorns.

8 May 1545 "



St. Francis

11/11/11





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M. Formicivorus

Chongo

HNR

13 May 1815 85 hole still empty

18 May 1730 "

28 Aug 0900 85 hole with beginnings of a mouse nest. I cleaned it out. Otherwise in good shape.

18 Sept 1545 The 85 hole looks good - with chips. The high hole in the granary is still incomplete. There's a new good looking hole in the sycamore.

4 Oct 1630 checked hole - empty - but looking good. 2 birds flushed from tree. Lotsa acorns stored.

9 Oct 0730 checked hole - empty. Leaned a storage log up against the granary tree - there are acorns stored in another small piece on the ground. Amazing  
0745 - 0900 Waited in blind for birds. Heard - didn't see.

9 Nov Roost watch - dead as a hammer.

13 Dec Acorn Count: Tree : 1100

limb that Conner leaned to the tree : 800

poke-up log on ground : 60

Flat log " : 10

total

1970

call it (2000)

(1970 count not too accurate)



damn rap idogryph

W	
<del>W</del>	
<del>W</del>	BPN
M	YD

460
497
532
<hr/>
1789



~~Mar~~  
1987

M. Stanback

M. Formicivorus

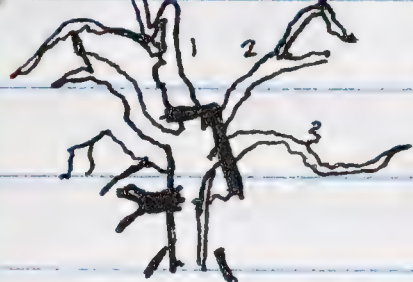
1

Buckeye

HNHR

6 Jan  
+ 7 Jan

1100 Acorn Count



← these 3 limbs counted on uphill side only  
rain!

= 1060

rest of tree = 1395

leaning logs = 53

Total = 2508

Total 2508

Not a very accurate count I must admit

8 Feb 1230 # roost holes = 13

Acorn Count: whole tree 5089

(w scope)

leaning logs 93

total 5182

26 Mar 0645 Arrive to find a sodden blind (one of the good ones!) crumpled on the ground. Dammit Katy - that makes Blm 1, Gazebo, SHW, and here! Oh yes, the 85 86 nest hole has a glob of what looks like ACW feathers all around the entrance - as if someone were nailed there. Pretty worthless. 0645 - 0900 and only one fly by.

30 Mar 0715 See a NOBA ♀ on arrival. Shit. Then see 1003. 0900 Small chase(?) between 665 and a ♀. 0930, 1 gnat.

31 Mar Walt told me of a hole facing uphill on the steep part, to the SE of the gran. 4 birds went in.

1 April They didn't like the ambush. Shit. Try pole next time.

17 April 0620 - 0645 Watched from Plan. No mate guarding. 2 short chases. 3 birds just sat quietly & apart in granary.

~~1800 Eggs~~



8 10 drum  
9 10 left?

1754  
337  
2091



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M. Formicivorus

Buckeye Nest Record

HNHR

21 April 0800 4 eggs in nest - Fresh

1 May 1300 5 eggs

3 May 1530 5 babies

24 May 0930 Banded + bled 5 babies







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M. FormicivorusBuckeye

HNHR

20 April 0745 arrive, 0800: 3 birds arrive - one is being chased - the remaining 2 sit for @ 30 sec and then fly (toward Chongo) Banded ♀?  
 0830 Yes - banded ♀. I saw W-O/T, so that means 987 is here. So who were those unbanded ♀ (there was only one)? Shit, a major mistake here. And 987 flew to the nest (same as last year). Shit, considering the # of acorns they have, they're probably about to hatch.

21 April 0800 4 eggs in nest. Picked one out to examine. Looked relatively fresh. Katy doing watch.

1 May 1300 5 eggs! Nice timing - no pipping yet. (?) <sup>didn't</sup> look

3 May 1530 RL LL RW LW Back (removed blind)

8.0 7.25 10.0 7.6 9.8

5 May (1845) 17.4 15.5 18.8 16.6 17.3

8 May 1515 M W R K B

30.5 28 31.7 30.6 30.4

11 May 1830 43.8 46 43.6 42.9 45.7

14.6 14.2 14.7 14.7 14.1

10.2 9.8 9.9 10 9.75

13 May 1730 50 52 50.9 50.2 53.6

I° 4.65 3.3 3.3 3.3 2.7

16.05 16.05 16.1 16.3 15.75

TC 11.5 11.2 11.1 11.9 11

TN 8.9 7.7 6.6 9.3 8.9

G 7.3 7.2 6.6 7 7

BW 4.1 2.9 3.6 3.6 2.75

Tail



12.7  
 17.4  
 12.7  
 10  
 7.5  
 7.2  
 10  
 6 2.6  
 M

9.5  
 17.7  
 10.5  
 9.9  
 6.9  
 6.1  
 8.5  
 6 1.9  
 K

9.3  
 17.7  
 11.9  
 8.6  
 7.4  
 5.7  
 7.6  
 59.9  
 W

10.35  
 16.8  
 12.1  
 9.8  
 6.7  
 4.7  
 7.5  
 63  
 R

10  
 16.9  
 11.9  
 8.8  
 7  
 8  
 9.2  
 6 1.1  
 R

245  
 120  
 125



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M. FormicivorusBuckeyeHNHR

15 May

Time Bird Wt 1° 1° Sh TC TN G BW T TS Chr

1745 M 62.6 <sup>12.7</sup> ~~12.7~~ 17.4 12.7 10 7.5 10 7.2

K 61.9 9.5 17.7 10.5 9.9 6.9 8.5 6.1

W 59.9 9.3 17.7 11.9 8.6 7.4 7.6 5.7

B 63 10.35 16.8 12.1 9.8 6.7 <sup>7.5</sup> ~~4.7~~ 4.7

R 61.1 10 16.9 11.9 8.8 7 9.2 8

20 May

1745 R 76 32.7 22.3 19.3 13.8 10 7.2 25 17.8 58.5

M 77 37.9 27.1 19.4 14.2 10.4 7.75 26.8 18.1 66

K 74.1 33.8 22.3 19.85 14.35 11.1 7.2 24.8 16.6 59.5

W 84.5 33.3 23.8 20 13.65 10.2 8 21.2 15.1 62

B 75.8 34.8 22.8 18.8 13.55 10.7 6.9 24.4 16.1 61

24 May

<sup>1399</sup> 0930 R 76.6 52.3 27.3 20.95 14.6 11.3 7.45 37.6 21.4 77.5 5 Blood

1397

W 81.3 52.1 25.5 21.45 14.7 11.1 7.9 32.5 21.5 79.5 3

98

K 72.1 53 28 21.2 15.65 12.5 7.4 37.4 21.7 78 4

1395

M 76.1 58.6 24.2 21.1 15.3 11.9 7.5 38.5 22.3 85 1

1396

B 75.5 53.9 24.4 20.2 14.5 11.3 7.25 35.8 19 78.5 2

Hematocrit: 1 44.5

2 39

3 46

4 46.5, 48

5 42.5, 42.5

10 June

Shit, set pole at low hole, watched 5-6 birds go in, then about 2000 the pole shifted - poof - out the several birds. I think they got to other holes OK.

12 June

roost watch: no one went in.

15 June

0930 Acorn Count: 760 + 497 + 532 = 1789



9 May  
1445  
Plye  
Gree LH 24.6  
27.9

w or  
w/o  
bag →

1403





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M. Formicivorus

BUCK

HNVHR

29 June Roost watch - 1 baby (only bird) into low hole - pole set.

3 July Roost watch - Geez, maybe I should have gotten the kid on the 29th. No one went in.

Sept \* Group Update: Maria saw birds here. See her notes for details.

19 Oct Juv 1398 in pines by Walt's house (see Y-not)

21 Oct " in Red House oak. Alone.

6 Oct Juv 1397 at Pan trap tween Knoll + Pump.

OK folks I think ♂ 665 must have died and that a Fuch effect was prevented by the young age of the H ♂.  
But Connie did Buck watch on \_\_\_\_\_.

13 Dec Acorn Count: 3 way count at main: 9000

bigger log at base 155  
small 66



B215

F 90  
S 95  
S 100  
M 105

all

Band July 22



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1987

1

M. Formicivorus

PLQE

HNHR

14 Dec Acorn counts: Main tree <sup>55</sup>~~1800~~ (Walt) (1500 me)  
2° tree 200  
tele pole 300  
total 2355

29 Jan 0930 Flushed 2 ACW's out of old nuttall's hole  
by foot bridge. Strange.

8 Feb 1100 # roost holes = 13

Acorn Count Main tree 1754  
2° tree 337  
tele pole 295  
total 2386

22 Mar 1330 521 & 721 at Y, pecking on the barn, locusts

4 April 1230 Acorn Count Main tree 1187  
2° tree 125 total =1431  
tele pole 119

9 April roost 1904. Fighting and chattering in area of 86  
hole. My guess is that this is the place, not up  
toward PLAN (I went by PLAN 1730, but saw  
no one.)

10 April 0700 Climbed nest - empty. Sat at PLAN for awhile,  
Loretta at Plge - nothing. Some intruders  
bothering the new lone ♂.

11 April Katy reports birds in the hole this am. I climb and find  
1 egg. Good for Walt. Had to cut new door. Remove  
egg and release ♂







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M. Formicivorus

Plge Nest Record

HNHR

- 11 April 1<sup>st</sup> egg laid. Removed for experiment.
- 13 April Eggs tossed. See Walt's notes
- 17 April 1<sup>st</sup> egg laid
- 18 April 2<sup>nd</sup> egg laid
- 19 April No egg laid. today
- 20 April 3<sup>rd</sup> egg laid
- 21 April 4<sup>th</sup> egg laid
- 2 May 4 eggs (#3 is pipping)
- 3 May 1300 2 eggs have been tossed! 2 babies (shells) <sup>in</sup> nest.
- 2 babies banded
- 2 babies bled







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M. Formicivorus

Plge

HNHR

12 April 0900 Climb hole. 2 eggs inside. Labeled new one #2. Shit, I hope the birds don't abandon because of the workmen's power saws & hammers & wanderings below the nest.

13 April Eggs tossed

17 April 0600 Bird at hole

1700 1 egg in nest (#1)

18 April 1730 2<sup>nd</sup> egg labeled as #3 !!

19 April 0900 Only 2 eggs!

20 April 1700 (3<sup>rd</sup> Egg labeled #2)

21 April 1800 4 eggs (labeled #4) Walter found only 3 at 0830

2 May 1500 Well, I had my chance to measure them just now and I blew it - I guess there's enuf data out there on egg size - lay order. Anyway egg #2 (third egg laid) is pipping.

3 May 1330 Bad News. There were 2 chicks in the nest. No other eggs or chicks. Both parts of both chicks eggs were still inside (#1 & #2) Thus I'm fairly certain the others did not hatch. I think they were tossed. Question is, was it the experimental ♂ or was this yet another case of "at-hatching tossing?"

RL = 5.42 (probably egg #2)

LL = 4.30 ( " #1)

4 May 1300 RL = 7.3 , LL = 5.2

5 May 1300 RL = 9.6 LL = 8.25

6 May 1800 = 15.9 13.6

7 May 1200 17.8 ~~17.8~~ = 5 14.6 =







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M. FormicivorusPlge

GA

SL

HNHR

8 May	1615	S = 23.7	= 21.2	
9 May	1445	27.9	24.6	(Walt)
10 May	1415	Band = 32.3	= 28.2	
		TC = 11.7	= 11.6	
		TN = 7.95	= 7.1	
11 May	1900	38.5	36.4	
		12.95	12.7	
		8.8	8.5	
12 May	1830	44.3	41.3	
		13.6	13.5	
		9.1	8.8	
13 May	1845	50	45.9	
		14.5	14.2	
		9.7	9.5	
14 May	1815	56	50.3	
		15	14.85	
		10.5	10.1	
15 May	1830	62.8	57.6	
	TC	15.5	15.9	
	TN	10.6	10.4	
	1°	3.9	3.3	
	BW	6.7	6.6	
	Tail	5.5	-	
	Tailsh	4	2.8	
16 May	1745	66.3	63.6	
		10.1	16.4	7 BW
		6.4	10.9	3.6 TS
			5.9	10

6.8 BW

5.3 TS



24.4  
48.5  
-29



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M. formicivorusPlgeH/NHR

17 May	Time	Bird	Wt	Ch	1°	1°s	TC	TN	G	BW	T	TS
	1840	-	67.3	-	-	9.4	16.5	11.2	9	7	7.3	5
		N	69.9	-	-	9.8	16.2	11.25	9.2	7	9	5.3 #2 long
18 May	1800	-	70.9			12.2	16.8	11.6	-	6.9	9.8	5.3
		N	72			13.2	-	12	10.2	7.2	12.3	6.3
19 May	1900	-	76	-	16.6	15.4	16.8	12	9.1	6.9	15.5	8.7
		N	77.4	-	18	16.2	17	11.9	9.5	7.2	15.9	9.3
20 May	1845	-	78.6	-	22.5	18.3	17.5	12.2	9.7	7	17.8	12.2
		N	78.7	-	24	20.2	18.1	12.3	10.7	6.8	19.9	11.4
21 May	1910	-	82.5	-	28.2	21.2	18	12.7	9.5	6.9	22	14.3
		N	81		29.5	21.7	18.3	12.9	10.4	7.1	23.5	14.4
22 May	1900	-	84.5	62	34.2	25.3	18.2	13.1	10	7.3	25	15
		N	83	62.5	35.2	25.2	18.5	13.1		7.3	25.5	15.6
23 May	1850	-	85.5	77.5	39.3	24.9	-	-	-	-	16? 19.3	?
		N	85.5	67	41	27.2					30.4	14.6
24 May	1830	-	84.5	73	44.6	28.4	19.55				32.5	16.5
		N	84.5	73	45.8	27.5	TC	TN	BW		32.7	16.6
26 May	1730	-	89.1	84.5	56.2	26.7	19.8	14.2	7.6	39.6	19.1	
		N	88	83	56.4	24.7	20.1	14.1	7.8	39	20	
28 May	1845	-	88.8	96	23.1	67.3	20.4	14.8	7.6	20.7	46.2	
		N	90.8	97	25	67.3	20.4	14.3	7.6	23	45	
29 May	1800	-	87	100	24.4	(48.5)	21.1	14.5	7.8	16.3	49.3	green
		N	89	99	24	(49)	20.6	14.55	7.9	20	47.5	blue
31 May	1015	-	85.3	108.5	24.4	80.5	22.3	15.3	-	22.5	55.3	
		N	88	107	23	81	21.4	14.9	7.9	18	54	
			Wt	Chor		1°	TC				T	

1 5  
2 6  
3 7  
4 8  
5 9  
6 10



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M. Formicivorus

Plge

HNHR

- 11 June 1520 - 1610 Baby watch. To my distress, all I find is baby 1403, whom I see repeatedly.
- 14 June still just the one kid call it 850
- 15 June Acorn Count: main = 275 2° = 45 → 820  
1830 Same hole has 2 eggs! (bird flushed on arrival)
- 16 June 1500 Still 2 eggs - bird flushed on arrival
- 17 June 1800 3 eggs - Cindy did a watch afterwards & reports incubation by ♀ & crippled ♂, but that babies (both of which are present!) roosted in the hole!
- 19 June 1445 - Saw both kids, but they were never together (except once <sup>for a sec</sup> when someone was talking to me)
- 20 June 1400 Never assume! I assumed that the ♀, not being able to lay 3 eggs in a row, would not attempt anything bigger than a 4 egg clutch. Wrong! There are 5 eggs in there. So, not learning my lesson, I did not number these - this ensures that a 6<sup>th</sup> egg will be laid!  
1550 Cooper's hawk attack! Philip saw it. It zipped in after an adult, which swung around the link, it swerved after it, missed, and tried for nearby baby 1403 in the same motion. The baby also swung around & saved itself. The hawk then left Plge and was seen swooping seconds later<sup>er</sup> toward PLAN.  
1635 ♀ 984 attacked scrub jay that was pecking acorns  
1530 - 1700 Dom watch - nothing.
- 25 June 1440 - Dom watch. At 1458, heard alarm calling, saw



P100+

15 vs 60  
65 95

M. FormicivorusPLQEHNHR

(25 June) no preds. At 1504, heard more alarm calling and saw Cooper's hawk in pursuit of an ACW around & above the sycamore by the shed-bridge. The ACW outflew the hawk & got away. (Oh yes, the 1504 calls: ~~one~~ First from bridge-syc, 2<sup>nd</sup> from nest area. The birds are not moving or speaking (still) at 1515. At 1516, I heard some pecking, but things are still pretty dead. At 1518, birds began karritting to e/o. The baby I am watching, didn't 'reactivate' until 1521. First wakas & flight at 1524:30. 1530 Dominance: 1403 > 1404. (1404 was sitting beside adult w acorn, 1403 flew in, sat, then pecked 1404 who retreated several steps. About 30 sec later 1403 > 1404. Then about 1.5 min later 1403 > 1404. Thus 1403 >>> 1404 !!

27 June 1530 - 1545 Baby watch. 1403 >>> 1404. Also, one of the babies went to the water hole and found a squirrel. It karritted, was answered by an adult who flew over (info?) and bombed the squirrel. The baby copied and also bombed it. The adult (♀) also bombed the squirrel when it was on the ground. 1645: Measured eggs: #1: 24.65 x 19.1, #2: 25.15 x 19.65, 3: 25.6 x 19.95, #4: 26.1 x 20.1, 5: 24.6 x 18.45

29 June 1015 Plge birds at MacRoberts (compare to Y birds here last year) Anyway, baby 1403 was here w ♀ MY-D, who I suppose could be ♀ 984. Very close by was a ♀ MLB





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M. Formicivorus

PLQE

HNHR

(29 June) Now who is she? Possibly a ♀ not on the field list. Her other leg is DG-BP(N)/LB-DB. There was also a NOID ♂ on the knoll who worked his way down to Blm Pond tree, where he vanished.

(1230 RL = 5.95 LL = 5.45) From eggs 2 + 3. Eggs 4 + 5 still unhatched, <sup>unpipped</sup> egg 1 not going to (I think it was cracked early on). Can't tell whether 2 or 3 hatched first. However, egg #3 was rather larger than egg #2, so if I had to guess, I would say that egg size rather than lay order determined baby size at day 0. (Shit, well maybe not)

30 June 1150 RL = 7.75 LL = 6.75 BK = 4.55 eggs 1, 5

1 July 1220 RL = 10.4 BK = 4.9 <sup>murder</sup> LL gone! 2 eggs

2 July 1210 RL = 12.6 BK = 7.35 new = 3.0 egg # 1

3 July 1200 14.5 10.0 egg # 1

4 July 1150 18.3 12.95

5 July 1215 22.3 (10.7) 16.9 egg # 1

6 July 1215 26.1 (11.5) 18.3 (9.95) hit in head by ♂

7 July 1210 31.1 (12.2) 8.2 20.8

Set ambush at hole above nest. Kids played w string. Bag it.

Bird Tim Wt Chor 1's 1° TC TN BW TS T

8 July 1220 ~~32.2~~ 32.2 12.7 8.7  
20.7 11.5

9 July 1200 39 13.15 9.2  
26.9 12.1 8.05

Set ambush in high hole - at least 1 kid + sev others go in

10 July Ambush - caught ♂ 521, B9, both kids (see cap record)



22 July

dead 32.2

time  
1000

72.1

69

hem

28

42

33-71

20.1

13.2

7.5

22

31

July 3

7:30 am

= 20

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M. FormicivorusPLQEHNHR(10 July) ~~500~~ wt chor TC TN BW T

521 83.5 143 37 28.1 8.9 78

973 81.7 142 31.1 24.8 8.15 76 got a radio

See cap recs for baby wts + blood (blood in Freezor)

1155 38 14.05 9.6

28.9 12.8 8.1

12 July 1220 47.8 15.05 10.2 W=1.9 T=3

36.8 13.85 9.2 (2(batfly?) scars on belly)

Bird Tim Wt chor 1° 1° TC TN BW TS T

d 13 July 1° <sup>(3)</sup> B 1150 50.1 3.1 15.4 10.4 6.5 3.3 4.5M <sup>(5)</sup> 39.8 14.95 9.95

14 July B 1215 68.8 27 4.75 16.3 11.3 6.9 4.1 6.6

m 45.5 2 15.25 10.1 7.3 1.7

15 July 1315 63 31 8.2 16.4 11.7 6.5 6.5 10.15

49 3 16.2 10.9 7.1 2.7

17 July 1200 63.7 40.5 14.1 16.4 18.15 12.6 6.7 10 16.2

50.3 26 ~~14.1~~ 6.5 17.5 11.3 7.1 5.1 7.4

BP-DG / 902-43196

LG-O / D.B

DB-LG / Mv

and

902-43197 / LB-BP

it seems the larger baby fledged too soon & died. See Philips notes for weights unfortunately, he lost them....

28 Aug 1045-1110 Census: 521, 721, 973, 1403, 1404.

The juv's are (still?) in ♂ plumage.

10 Sept 0900 Bird in the nest hole. Looks like a juv, but should climb Acorns (small ones) are now falling from the nest tree (2° gran)

1245. Damn - 5 eggs, warm but fresh. And me with no Field asst.

Help climbed when too old



14

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1987 M. Stanback

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M. formicivorus

Plge

H/NHR

16 Sept 1400 Shoulda checked yesterday, dammit. Anyway, 4 + 1 egg. <sup>inf.</sup>

RL = 7.75 LL = 9.4 RW = 5.3 \* = 3.5 RW

looks to have hatched yesterday (big + skinny), while \* looks to have hatched today (small + normal). 2 hr watch

18 Sept Don't ask. <sup>2 hr watch, right?</sup> Did 2 hr watch, then weighed at 1345

RL = 14.2 LL = 17.2 RW = 7.35 + 1 egg

Checked PLAN this am - saw no one there.

19 Sept 1410 RL = 17.75 LL = 20.5 RW = 10.2 + 1 egg

20 Sept 1400 = 18.5 24.2 12 + 1 egg

21 Sept 1415 = 22.75 (10.5) ~~29.4~~ (11.5) 13.5 + 1 egg

22 Sept 1415 26.7 (11.6) 35 (12.3) 16.9 Tried to take pics

23 Sept 1330 30.75 (12.7) ~~37~~ 38.75 (13.3) 18 (10.2) + 1 egg

24 Sept 1320 33.9 (13.55) 42.6 (14) 20.4 (10.9) ?

25 Sept 1225 33.1 (14.2) <sup>I think</sup> 38.1 47.75 (14.55) 9.6 24 (8.95)

26 Sept 1405 42 (14.9) 9.6 49 (15.35) 10 25.5 (12.3)

27 Sept 1230 Saw J 1403 = ♂, saw J 1404 = ♂, storing.

1410 53.9 2.2 16.0 10.3 2

46.2 2.2 15.4 10.2

26.8 13

28 Sept 1405 59.5 4.7 16.4 10.55 1.4 5.5

51 3.6 16.1 10.35

28.4 13.3 9.55

29 Sept 1405 65 32 8.2 17.1 11.2 4.6

56 28 6.5 16.6 10.75 2.1

31.4 14.1 9.6

29 Sept 1630 Checked out Plan - nothing

Tree w 85 a hole has lots acorns



6

1987. M. Stanback

10

M. FormicivorusPLGEHNHR30 Sept 1410 ~~70.5 65 24.4 40 19.85 13.5 15.2 32.7~~

70.5 37 11.6 17.6 11.4 5 12.3

62 33 8.9 17.4 11.3 4.8 7.6

(37.1) 2 14.7 9.7 1.7

1 Oct 1415 72.2 43 13.5 16.5 18.3 11.6 7.2 17.2

64.2 39 12.2 13 17.9 11.6 5 12

37 4.2 15.5 10.3 3

2 Oct 1410 74 49 17.5 21.8 18.4 12.3 11 21.1

66.6 44 15 18 18.4 12.1 7.5 15

40 6.2 15.8 10.4 4.3

3 Oct 1415 74.5 54 19 26.7 19.1 12.75 14.2 24.8

69.5 50 18.3 23 18.95 12.3 10.5 19

43 30 8.5 16.3 11 3.5 8.8

4 Oct 1415 76.5 61 21.9 32.2 19.25 13 17 28.2

70.5 56 <sup>21.9</sup>~~21.9~~ 28.3 19.25 12.9 11.1 21.8

45 35 12 12.7 16.5 11.3 6 11.7

5 Oct 1410 79.2 66 24.5 38.9 19.7 13.2 15.5 32

75 63 22 34.2 19.7 13.2 12.8 25.3

50 40 14 17 16.85 11.8 6.5 14.5

6 Oct 1410 77.7 72 26.2 44.3 19.8 13.4 18 35.5

76 68 23.2 39.8 19.95 13.7 15 28.6

54.5 45 16.9 22 17.4 12.1 8.5 17.5

7 Oct 1410 80 78 24.2 50.5 20.15 13.8 17 38.3

77 77 25.8 45.4 20.4 14.1 17.6 31.6

58 52 19.1 26.7 17.8 12.8 11.5 21.2

banded and bled. Big =  $\frac{LG-K/M}{DBW(N) \text{ Maure}} = 1442$  Mid =  $\frac{M/BP-W(N)}{DB/W-LG} = 1441$ Runt =  $\frac{K/LB}{M/DB-O} = 1443$ 

1441 45, 45.5, 46

1442 48, 48.5, 50

1443 39.5



$$\begin{array}{r}
 22 \\
 208 \\
 130 \\
 1588 \\
 \hline
 3275 \\
 \hline
 4201
 \end{array}$$

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11

M. FormicivorusPLQEHNHR

9 Oct 1405 78 88 25 60.7 20.65 14.10 - 45  
 23.4 84 28.5 57.3 21.3 14.5 22 38.8  
 58 62 22.7 36.5 18.3 12.95 14.5 26.3

12 Oct 0930 78 103 22.2 15.1 53 B  
 78.5 99 22 15.1 48 R  
 62 77 27.5 51.8 19.3 13.8 16 34 G

18 Oct 1440 Babies still in hole

21 Oct 1440 Baby still in hole.  $1442 = \frac{LG-K/M}{DBW(N)/Maue} = B$   
 $1441 = \frac{M/BP-W(N)}{D.B/W-LG} = R$   $1443 = \frac{K/LB}{m/DB-O} = G$

25 Oct 1430-1530 Baby watch: saw 1442, 1441, no interactions.

26 Oct 0815-09 Baby watch. Starting @ 0915 saw 1442  
 > 1441 about 8 times (including pecking, displacement,  
 and 1442 > 1441 while 1441 had head stuck out  
 of hole). They were playing alot in the back  
 door ambush hole in the nest tree. Also saw 1443  
 1441 + 1442 hung around together. At one point  
 J 1403 fed babies in hole.

3 Nov 1400 Saw all 3 kids, plus 1442 &gt; 1441.

\* Group Update \* 984 last 870729, 1<sup>st</sup> not 870828, ∴ 870815 ± 2w  
 723 last 870715, 1<sup>st</sup> not 870828, disp 870805 ± 3w

11 Dec Acorn Count: Styrofoam 208

T-pole 100 (+ a filled hole ≈ 130)

saw  
5/1442main gran lost  
limb w 70 acorns2<sup>o</sup> gran 5881<sup>o</sup> gran 3275

15 Dec 1500: Saw: 521, 721, 1403, 1441, 1442, 1443





1987. M. Stanback

1

M. Formicivorus

MacRoberts

H NHR

31 Aug 1030 At least 2 birds seen here. (Also I heard birds here several days ago)

1 Sept 0900 Several birds here - they seemed to have come from the NE (W side of Red Hill) These are not the Ref 1 birds.

10 Sept 1 hear birds up there (1200)

18 Sept 0700 2 NOBA ♂♂ (1 is ratty looking) and a NOBA ♀.

7 Oct 1100 At least 5 birds here, including an NOBA ♂ (which I think is the scruffy ♂) There was a brief displacement/chase.

11 Dec 1200 No acorns here, but Griffin says he's heard birds here





1987. M. Stanback

1

M. Formicivorus

MOONSHINE

HVHR

		wt	10	TC	TN	BW	TS	
22 May	0700	B	44	2.2	15.2	10.4	6.6	2.2
		O	26		13	8.55	6.5	
		P	47.4	3.9	15.5	10.7	7.1	2.2
		G	51	4.1	16.3	11.5	7	1.8

2 June	0630	R	80	75	50.4	25.7	19.95	13.8	7.7	35.5	16.2
		B	86	75	48	26.6	20.4	13.7	7.5	33.2	20.3
		G	89	80.5	54.7	27.4	22	15.4	7.6	38	21.1
		O	54	41	18.6	13.9	17.45	11.6	6.7	11.3	8.2

30 June 0800 - 1100 Census. J 1422 NOBA ♂  
 seen twice. 1300 - puts lotsa dog food in granary  
 1600 - 1640 stared at granary - nothing.  
 1725 - return w waka tape, but no one comes in!  
 I hear birds at Mark & Shorts, & up on Moon hill,  
 but no one visits granary. Is this some abdued group??

1 July 1600 - 1645 Brought power struggle tape - some response  
 but not a great deal. J 1422 showed up twice,  
 no other kids did. They seemed to eat a couple  
 pieces of dog food. A ♀ was the first to  
 show up after I started running the tape. All  
 adults seen were NOBAs. Found ACW predation <sup>(Feathers)</sup> CBH 305

17 July 1130 NSS. Dir 359, ht 6.55, CNH <sup>25.4</sup> 80, dp 33, ang - 45  
 Oh yes, I collected the feathers of the "dead" ACW  
 from close to the nest tree and saved them.



Q

Q

Q

1987. M. Stanback

M. Formicivorus

Y

HNHR

6 Jan 1430 Noticed 3 birds at Y. 1 flew to Plge, the other 2 sat on the barn and in the gran locust. These 2 were ♂♂, and one was making juv noises. No acorns here (despite my supplementation of several hundred — all stolen by Plague birds — which are hanging out in Walters yard somewhat).

# roost holes

22 Mar 1330 Supposedly Plge birds (helper? ♂♂) have moved in here w the Y ♀. Well, I saw the 2 Plge Breeder ♂♂ here, and also heard some other ACW's in the broken live oak and maybe even up on the knoll. Oh yes, I did hang a dog food dispenser up here about 1 week ago, but it's been raining and I don't think anyone touched it. I'm preparing a dog food log now to teach them the wonders of dog meal.

23 Mar 0715 Positioned the dog food feeder right beside the Food log — hopefully they'll learn before it's all soggy.

24 Mar They've learned. The ♀, a Plg ♂, and a NOBA ♂ are here

25 Mar ♀ flew to the immediate area of the 85 sycamore nest hole at 1345. By the time I got a good view (1 min) she <sup>had</sup> flown from the nest area to another part of the syc. She then flew back to the barn.

30 Mar 1200 ♂ RKM + ♂  $\frac{RW}{K-LB/M}$  at barn. This is 1150 and the former NOBA ♂.

31 Mar 0710 4 birds here — some chases. 1 flew to Schil.





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2

M. Formicivorus

Y

H.N.H.R

- 3 April 1615 Filled dog food feeder (was almost empty)
- 11 April Cleaned part of a starling nest out of the locust hole.
- 12 April 1045 ♂ 1150 is working on a new hole facing the lane in the top of the sycamore just above and around from the 83 b hole. However, it still seems shallow, and the entrance is large
- 19 April 1100 Filled dog food feeder (nearly empty) [Bird on it on arrival]
- 28 April 0645 Dog food hardly touched - what's the deal?
- 3 May pm empty
- 6 May Walt reports 2 eggs
- 7 May pm I climb & mark the 3<sup>rd</sup> egg.
- 10 May 1200 I mark the dog food feeder at the current Food level
- 12 May 1300 Dog Food level marked.  
1500 Check nest: 6 eggs! Shit, I should have measured the eggs (to see effect of dog food) The experiment is on!
- 13 May 1330 Food level marked
- 14 May 1400 "
- 15 1300 "
- 16 1100 "
- 17 May 1400 Level mark. Then Feeder filled to top of tape.
- 18 May 1300 Food hasn't gone down any, but I think its just an artifact of being so full (ie, it may take a while to get unpacked)
- (19 did I mark it?)
- 20 May 1100 Food level took big dive. Katy reports a bird brought food (tipulid) to the hole)



11/11/11

1987. M. Stanback

M. formicivorus

Y nest record

HNHR

6 May 2 eggs

7 May 3 eggs

12 May 6 eggs

21 May hatching (1 baby) 0630

22 May 0800 3 babies

24 May 0745 4 babies

26 May 1500 3 babies

28 May 1700 2 babies





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M. Stanback

3

M. FormicivorusYHNHR

- 21 May 0630 #3 first to hatch, an unmarked egg is hatching, #2 is pipping, #1 is infertile (I didn't check any others)  
Baby from egg 3 weighs 5.2 and is RL.  
1230 Marked dog feeder
- 22 May 0800 RL = 6.5 LL = 5.2 BK = 5.4 + 3 eggs  
1230 marked dog feeder
- 23 May ~~0715~~ 0715 RL = 9.7 LL = 6.9 BK = 7.55 + 3 eggs
- 24 May 0745 RL = 12.7 LL = 9 BK = 10.4 - = 4.2 !
- 25 May 0645 mark, then refill feeder (return at 1130, but food hardly touched - I need to make sure its not disappearing during the night.
- 26 May 1300 mark food  
1500 LL = 12.2 RL = 21.5 = Mv BK = 17.1
- 27 May 1145 food just below the 22 level (?)
- 28 May 1315 food marked  
1700 RL = Mv = 28.3 (LL) = ~~18.5~~ 17.5 (+ 1 egg)  
Dead baby (back) = ~~15~~ = 14 Now wait a sec "BK" supposedly weighed more than LL. Why is back dead? (
- 29 May 1710 M = 33.6 (11.85) - = 18.8 (+ 1 egg)
- 30 May 1730 M = 38 = 21  
1800 Filled Feeder to top wire.
- 31 May 1145 marked  
1200 M = 38.9 (13.3 TC) NOBA = 21.4 (10.7)
- 1 June 1840 M = 50.1 (14.15) 27.75 (11.5)
- 2 June 1815 M = 54.9 (15.2) 9.7 (TS = 1.5)  
- = 29.9 (12.1) 2.7





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4

M. FormicivorusYHNHR

3 June	Time	Bird	WT	Chor	1°s	1°	TC	TN	BW	TS	T <sub>g</sub>
	1815	M	59.8			2.3	16	10.3	7.4	2.8	
		-	30.9				13.1	8			
4 June	1220	Food marked									
	1750	M	63.8			3.7	16.3	10.9	7.3	4.2	
			<del>34.4</del> 33.4				13.55	8.8			
5 June	1550		63.7			5.3	16.8	11.2	7.6	5.7	
			32				14.25				
The big baby is beating the shit out the little guy - grabbing its head etc. Cindy watched 1 hr today. ♀ ate 4 pieces, 1 ♂ 4 pieces, other ♂ 1 piece.											
6 June	1630		68	32		8.1	17.4	11.45	7.5	3.6	8
			33.9				14.65	9.3	6.75		
7 June	1620		74.2	36		11.1	17.7	11.9	7.5	5.6	10.4
			34.5				15.1	9.6			
8 June	1735		74	40	14	15.3	18.2	12.2	7.8	6.1	13.5
			35.9				15.5	9.7			
9 June	1710		75.5	45	16.3	20	18.65	12.4	7.7	10.3	16.9
			35.5		2.5		15.5	10		1	1.5
10 June	1615		81.9	50	18.8	24.6	18.8	12.7	7.8	13	20.6
		dead	31.5		2.8		15.9	10.1		1.4	2

Shit, Pat informs me that the dog food feeder was at ground level as of dusk, i.e. I forgot to raise it at 1330 after marking it. I think the baby died in the late morning (Katy reports wierdness then) however, now I won't be able to document the survivor's growth tomorrow (w/o competition) The big baby no





1987

M. Stanback

5

M. formicivorus

Y

HNHR

(10 June) longer begs constantly like he's been doing every day til now. And Katy reports at hole feeding has stopped now that the runt's gone. So is the big kid sitting easy now that he has no competition?

11 June 1630 83 57 20.5 30.3 19 13.2 7.8 16.2 23.9

13 June 1600 84.5 69.5 24.5 42.3 19.8 13.8 8 17 31

15 June 1655 85.5 80 26.1 53 20.3 14.2 7.8 20.7 37.5

Unlike most chicks at this age, he still begs when hole covered.

18 June 1705 81.8 95 24 68.1 21.5 14.9 8.2 22.7 45.9

20 June 1400 81.5 103 25 76.6 21.7 15.05 8.2 25 51

21 June 1655 82.6 106.5 - - 21.95 15.2 8.25 28.5 53.6

Dog  
Food  
Levels

18 3 3 19 3 5 1.3

19 1 4 3.3 20 4 6 1.1

20 2 5 3 21 3.5 7 1

21 2.5 6 4.3 22 8 5

22 3.5 7 2.7 23 9 1.1

23 4.3 8 3.9 24 10 1.5

24 6.3 9 3.3 25 1.6 11 } 3

25 1.5 filled 10 3.4 26 1.1 12 }

26 2.8 11 3.3 27 .6 13 2

27 ↓ 12 4.5 28 .7 14 1.7

28 8.8 13 .5 29 .2 15 1.7

29 4.6 14 1.5 30 .2 16 1.5

30 5.2 15 3.8 1 .2 17 1.2

31 2 16 3.5 2 .5 18

1 5 17 ↓ 3 2 19

2 4 18 7.5 4 1.7 20



24.4

17.45

2.7

139

81

83.5

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6

M. FormicivorusYHNR

2 July Set ambush at nest hole in hopes of nabbing the juv (even tho there'd been no roost watch) No one went in. (Bird in 86 nest hole when I checked dog food)

3 July Decided to leave ambusher up, bird Flushed from 86 hole again. At 1230 I checked 86 hole (bird Flushed) and found the juv inside!! No ambush necessary now!! 83.5, 139, 24.4, 17.45, 8.7, 81 (= wt, chr, TC, TN, BW, T) And underneath the baby? 6 eggs!! Geez. I didn't check their age, but if the dog food data means anything, it should be soon! Is this a fall nest or a dog food nest? Stupid neanderfuck... I forgot to get hematocrit!

1440 Checked nest again. No one Flushed. Eggs very cold. It was hard reaching the bottom, so I pulled out only 1 egg. It looked very Fresh (and was round). Sooo.... maybe she's not finished laying (?) or if she is, why aren't they incubating? I hope they don't abandon just because I caught a baby inside. Note Philip that a starling nested in this hole earlier in the spring.

5 July 1300 Are incubating.

6 July 1500 Filled feeder to top of tape. Aye, 'tis a wee bit of a puzzle here. I numbered and measured eggs, but they still look Fresh and aren't especially warm.

#1 24.0 × 21.1	#3 24.6 × 21.3	#5 25.2 × 20.6
#2 24.5 × 21.0	#4 24.15 × 20.8	#6 24.25 × 21.2

The baby hangs out in the hole!!

9 July 1230 Baby is only bird to Flush from hole. What's up?



no dep !!

ht	615
cnH	61
ang	58° fr hor
CBH	226
dir	150
asp	250

limb alive

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7

M. Formicivorus

Y

H/V/H/R

- 10 July 1215 The baby is is only bird emerging from nest.
- 12 July 1115 Adult + baby in nest. All 6 eggs opaque, none hatched
- 13 July 0830 ♀ in nest - no eggs hatched  
 NSS 1<sup>st</sup> nest: ht = 10 m, CNH = 90, ang = 10, dir = 252  
 dead limb, syc, see CBH, depth = 30 (?) ↘ from horiz
- 14 July 0630 Still not hatched! but it looks like pipping
- 15 July 1345 OK, what's the deal - still not hatched (or pipped) <sup>note</sup>  
 I pulled out an egg + examined it - opaque + looks good - there's always a bird in hole too!
- 16 July 1600 Still not hatched!! What's up??
- 17 July 1800 " " (♀ + baby in hole)
- 2 Aug 1500 Nest empty.
- 7 Aug Ron reports some wierdness here. It seems H-B birds may be trying to set up shop on the Knoll. HB birds: ♂ 1301, ♂ 1303 were with Y ♀ 1350. Ah ha! so....  
 1350 is not back to join Y, she's back to set up Knoll (she's probly the Ref 1 bird). Ron says a similar thing happened in 1981.
- 15 Aug Refilled feeder (also filled it 2 Aug) Heard birds at Knoll + at MacR as well as at Y proper.
- 17 Aug 0800 675, 1350 seen (also MR) (? who?) Oh, scrub jays have learned how to operate dog Food Feeder. Garricks, etc still heard on Knoll. See Knoll-Pump notes
- 22 Aug 1330 Stopped by to watch them eat dog Food, when I saw a bird go to the hole. Then again. Checked hole... Nest #3!! 6 fresh warm eggs.
- 27 Aug ♀ 1350 is still associating w H-B ♂ at Knoll.

they  
are becoming  
no dog food?





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8

M. FormicivorusYHNHR

(27 Aug) Maria reports only ♀ 675 & ♂ 1150 incubating ♀ 1350 may be a Knoll bird, but what of ♂ 1376?

28 Aug Maria reports seeing ♂ 1376 at Y. What's up?

31 Aug 1320 RL = 5.2, LL = 4.45 + 4 eggs

1 Sept 1000 6.95 5.0 RW = 4.2 + 3 eggs

2 1000 9.5 9.5 3.6 + 2 eggs

3 1130 15.5 12.5 — + 2 eggs

4 1015 15.5 10 2 eggs

5 1100 18 9.8 1 egg

6 1040 19.2 10.2 no eggs

After a 3 hr nest watch I removed the smaller baby and Fed him in the lab. I owed Y a Favor

7 Sept 1620 21.1 (10.4) 7 16 (8.4) ← not vigorous

8 Sept 1045 22.25 (10.9) 1 Fed dog Food 13.2 looks bad!

9 Sept 1230 23.9 10.75 nearly dead

10 Sept 1135 23.9 (12.2) 7.9 Fed 8.3 this is incredible

11 Sept 1240 27.2 (13) 8 food too dry didn't eat gone

\* Group Update : Y consists of ♀ 675, ♂ 1150, and Juv 1428. ♂ 1376 hasn't been seen since

(\*) 870608 (though Maria F might have seen him, but I wouldn't bet on it) ♀ 1350 was flirting w the H-B ♂ at Knoll, but was being bested in that long term p.s. by some persistent NOBA ♀♀. We're leaving her with Y for now, even though she is not involved with Y's nest.

12 Sept 1230 27.2 (13.3) he ate 6 syringes full dog food

13 Sept 1045 30.1 (14.0) 9.0 5 syringes full ~~lighter~~ skin looked dry.





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M. Formicivorus

HNHR

15 Sept	<del>date</del> <sup>time</sup>	wt	chor	1°s	1°	TC	TN	TS	T
	1815	33.0	fed 2 pieces			soggy	dog food.	eyes open	
16 Sept	1310	32.4	1		15.5	10	3.4	fed 5 Full syringes.	
17 Sept	1100	33.6	1.3		15.8	9.9	4.0	fed 5 Full syringes	
18 Sept	0730		See Knoll notes			For Y's wierd involvement			
	1030	36.5	1.8		16.2	10.2	4.3	did not feed	
19 Sept	1145	43.2	17} 2 really		16.4	10.3	5	fed 3	
20 Sept	<del>11</del> 45	45.9	3		16.6	10.7	6.2	fed 1/2	
21 Sept	1200	51.5	4.65		16.9	11.1	7.6	no feed	
22 Sept	1145	57.7 (28)	6.5		17	11.3	9.3	11.8	no feed
23 Sept	1115	60.6	33	9.6	17.2	11.6	11.1	13.9	fed 1 g. hopper
24 Sept	1300	62.8	36.5	12.2	13.2	17.4	11.8	11.2	17
25 Sept	1320	66.1	40	12.2	17.2	17.6	12.4	14	20 bled

This am. I filled the Y not granary w VACK + BLOK acorns.  
Hematocrit 34.5, 34.5

26 Sept	1135	64.5	45	15.3	20.1	18.1	12.7	10.7	21.7
27 Sept	0820	Saw ♀ 675	♂ 1150	at Y locust.	Saw ♀ 1350	Knot			
	1200	68	50	19.7	25	18.5	12.7	13.7	24.4
28 Sept	1220	68	55	19.3	30.6	18.9	13	14.5	27.3

29 Sept 0700 Wierd: Mom, Dad, & Juv are all looking in the hole making upset sounds. A second ♀ (presumably 1350) was seen briefly @ 6 feet away, but did not come to the nest. J 1428 is a ♂. See Knoll notes for terr boundaries. (No, bag it)

0800 I check the hole. As I approach a starling flushes from it. It has beaten up the baby (bloody around head, but no deep wounds). After closing the





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10

M. Formicivorus

Y

HNHR

(29 Sept) hole back, 1 watch from a distance. The adults still don't want to go in.

1200 67.7 61 22.5 34.7 19.9 13.2 13.3 30.5

30 Sept 1150 70.5 65 24.4 40 19.85 13.5 15.2 32.7

1 Oct 1205 67.4 70 24 45 21 14 14 36

2 Oct 1205 66.6 <sup>74.6</sup> ~~74.6~~ 23.3 49.6 21.1 14.1 16.5 38.4

banded as #1440  $\frac{D.B}{M} / \frac{BYN}{R-MV}$  M = 942-15705

While I measured, he twice jumped out of my hand trying to fly. He also sits with his head out the hole. I worry about continuing to weigh him. (He's 32)

26 Oct 0945 1428 uses the sycamore  $\frac{1}{2}$  way tween Y & Ynot.

\* Group Update \*

1376 last seen 870608, not seen 870817,  $\therefore$  disap 870710  $\pm$  1 M

1440 NSAB

1350 still considered a group member, though likes KNOL

12 Dec Acorn Count in tree beside fallen locust: 45 } total 420  
Main gran on NE of barn: 375 }



~~R/B~~

R/B

no

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1

M. Formicivorus

Y-NOT (aka Pine) (aka Knoll?)

HNHR

- 19 Oct 1100 Yes Folks, there are birds here, on the granary. Most of the acorns I put in (see Y notes) are still there, and they are adding their own as well. There are  $\geq 3$  birds here. They are also hanging out in the big dying pines by Walt's driveway. Group includes ♂ BWN/W-O <sup>M</sup> = (1398) NOBA ♀ with a gray bar. A NOBA J ♀ was chased several times in the pine tree. See Connie's notes for KVOZ for what's up here.
- 21 Oct 1500 Noticed @ 5-6 birds chasing in the big pines.  
1600 Well, well, the ♂ in the pines on 19 Oct is 1398 From BUCK, a juv! Today he is hanging out at Red House, while ♂ 1301 (KB helper → Knoll) is now in the pine, along w gray ♀ from 19 Oct. Hey, and that was BUCK J ♂ 1397 at Pump/Knoll.  
1620 Bird flew from Y-not Pines to SHIL; heard vocalizations on his arrival.
- 25 Oct 1700 ♂ ACW's on Red House T pole (saw bands on  $\geq 1$ )
- 5 Nov 1030 Gray ♀ resident here, but there was activity among sev ♂♂ here. At one point 4 birds flew from pine towards MOON, but stopped sev 100 m past Red House (+ later returned) Scrub jays very active. Saw ♂ OWNW = 1303
- \* Group Update \* Not yet considered to be a real group. Buckeye kids remain Buckeye, 1301 + 1303 Knoll
- 12 Dec Acorn Count in Y-not gran. 800





1987

M. Stanback

1

M. FormicivorusKnoll ~~(Pump)~~HNHR

- 17 Aug 0800 Low intensity Power Struggle still going on here (see recent notes by R. Munroe) NOBA ♀, and H-B ♂♂ (I think) There are @ 5 birds active here, with the active area defined by Knoll - Pump - Gate Field ravine. Chases, garricks, drumming.
- 23 Aug am... there's still wierdness going on here. See Maria.
- 27 Aug 0815 - 0845 Still wierdness. At least 2 NOBA ♀♀, at least 1 NOBA ♂, ♂♂ 1301 + 1303<sup>from HB</sup>, and ♀ 1350 From Y are all involved in chases here. These birds cover the whole area between the pond and Walts back yard, though concentrating on the Knoll granary and Y's 1<sup>st</sup> nest (87) sycamore. The Y ♀ is friendly w a H-B ♂.
- 28 Aug There's an assortment of NOBA + banded birds (seem to be ♂♂) hanging out at Pump.
- 1 Sept 0800 ♂ flew from Two Towers to Knoll (banded)
- \* Group Update: According to the new fieldlist, the ♂♂ here are 1301 + 1303, the ♀♀ are 2 NOBAs. The NOBA ♂♂ here have been ignored, and the Y ♀ 1350 who was involved with Knoll is considered back at Y.
- 17 Sept 1015 There are birds here, <sup>at Pump</sup> but are they KNOLL or PUMP?
- 18 Sept 0730 Wierdness. In Knoll-Y sycamore I saw ♀ 1350 with ♂♂ 1301 + 1303. In the Knoll granary were NOBA ♀♀, a NOBA baby, and juv 1428 from Y. All birds





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M. Stanback

2

M. formicivorusKnollH NHR

(18 Sept) were flying everywhere and there was activity from Walt's yard down to the Pump - what's going on.

27 Sept 0800 Saw NOBA ♀ (>1) and a NOBA ♂ here. Did H-B ♂♂ lose?

29 Sept 0700-0730 Starlings here. OK, I saw ♂ 1301 + 1303 here. It seems they're still having border wars with Pump. More than border wars - Pump is having a full scale invasion of Knoll (But Pump seems to be having its own problems as well.)

6 Oct 0745 Saw ♂ R-DG(n)/O-LG drinking from pan trap between Knoll & Pump. Lots of chasing still going on. Hey, this is Buck J 1397!

9 Oct am Much weirdness here. Saw 1301 + 1303 in spider sycamore w ♀ 1350. NOBA J ♀, NOBA J ♂, NOBA ♂♂ + ♀♀ at Knoll, NOBAs at the snake guard tree, other birds at Pump. Do we have Y, Y-not, Knoll, Pump. See Connie's notes.

26 Oct 1000 ♂♂ 1301 + 1303 here, along w NOBA J ♂, and a ♀ banded Mv Q (?) → Mv 'Rex' LB-K/M. 1301 also seen at T pole w box 13. 1301 in Walt's pines the other day (see Walt)

\* Group Update \* Ambushed ♀♀ considered part of Knoll

♀ 1444 was NOBA

♀ 1445 was NOBA

♀ 1450 was NOBA

12 Dec Couldn't find any stores here, but Y not has 800





1987

M. Stanback

M. FormicivorusPUMPHNHR

- 29 Sept There are > 5 birds here. They are fighting with Knoll birds and among themselves. They range from the Haystack T-pole w had thermoboxes on to the tree with the snake guard that the snake climbed over. They also go from the Blm Pond trees and the W end of the Knoll over to Big Creek. There were  $\geq 2$  NOBA ♂♂ here. The action here might be spillover from the recent weirdness at Blm 1.
- 1 Oct 1600 About 6 birds here - still some internal chasing.
- 6 Oct 0745 See Knoll notes for 6 Oct.
- 10 Oct 1345 There's a NOBA ♀ in the Blm Pond tree. I stayed here  $\frac{1}{2}$  hr., saw no one else. Knoll action.
- 4 Nov Roost watch. Some birds here, both in Pump trees and in the 2 Blm Pond Valley oaks, but there was also some mixing (?) w Knoll birds.





1987

M. Stanback

M. Formicivorus1500HNHR

14 Dec '86

Acorn count 1° tree 1292 Walt2° tree 154total 1446

8 Feb

1500 # roost holes : 8

Acorn count 1° tree 1461

total

2° tree 241485total 1485

4 April

1300

3 Way Acorn count

1° tree 821

2° tree 0821 total

12 April

1000 Hole empty, but looks active. It is however a bit damp inside. A bird came &amp; scolded me while I was in the tree. It was noisy here when I was at 1800 a little earlier.

17 April

1015 Hole empty &amp; decidedly damp inside. Unfortunately, the muck is inches deep, so I just left it.

23 April

am. Cyndy reports bird at hole

1030 Climb, empty, not as damp.

28 April

pm Walt reports no eggs

1 May

"

4 May

pm. I Climb it. Empty, still a wee bit damp, but some chips.

12 May

1430. Still empty. The low hole in the other tree is actually in nice shape (chips - but how fresh?) There were 3 birds in the snaggy spindly tree on the still side of the lane. What's up?

14 May

Spent an hour here - nothing

16 May

0830 Stopped by to hello holes - nothing.





1987 M. Stanback

2

M. Formicivorus

1500

~~ESR~~

HNHR

- 17 May Katy reports bird in traditional hole.
- 26 May am helloed holes. No luck
- 10 June 1500 Watched 15 min. No nestiness.
- 15 June 1730 Acorn Count: 90
- 17 Aug 0815 I hear lotsa wakas here (From Pump)
- 22 Aug 1430 Bees in the traditional hole. Door missing from "low" hole. I put it back in w string.
- 27 Aug 0930 Saw ♂ 297 (YK10)
- 31 Aug 0715 - 0730 Saw ♀ 1367, and 2 (?) other birds: 1274?  
Saw ♂ 297. Maria saw 3 birds (: 1274?)
- 10 Sept 1500 - 1540 Watched for nestiness - dead. Bees in hole.
- 17 Sept 0815 - 1000 Census + nestiness watch. The birds did not show any overt signs of a nest. Lotsa sitting, playing w acorns. Saw ♂ 297, ♀ 1274 ♀ 1367. Twice though I saw extra birds (at least 2). These could be Pump spillovers (but they seemed to come from 1800 - Haystack)
- 23 Sept 1700 - 1720 Watched from distance. Saw no nestiness  
0645 - 0730 " " Afterward looked for holes. The one in the down pointing snag in the main granary looks likely. The traditional hole seemed to have lost its bees.
- 2 Oct 0815 - 0835 Watched for nestiness - none. Then helloed holes. Bees are gone  
0945 Stop to spy from lane. Ah ha! Bird into bee hole!  
1115 LB-R/M LR-R/LB Connie saw this bird (maybe 685)  
maybe ♀ 1109 (was Chgo ♀)



$$\begin{array}{r} 3700 \\ 1270 \\ \hline 4970 \end{array}$$

1987

M. Stanback

3

M. Formicivorus

1500

HNR

Keep an eye out here for an extra ♀ (see Connie's notes)

13 Dec Acorn Count : Main gran 3700

saw ~~1367~~ 1367

2° gran 1270





1987

M. Stanback

M. Formicivorus

1

1800HVHR

14 Dec '86

Acorn Count

1°

1822

(Walt)

(me ~1500)

2°

70

72

total

1892

8 Feb

1600

# holes for roosting

2° tree :

4

} 12

1° tree :

8

Acorn Count

1° tree

2396

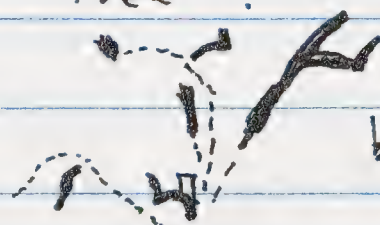
2° tree

5

total

3001

(From uphill side)



black = acorn limb

Fallen limb with

154(:. total would have been 3155)

this piece taken to aviary (after analysis of acorns. (Actually, it ended up at Y))

27 Mar

1500-1600 Census 770, 771, 193, 774, 787. No

sign of 1325; I saw the other 5 repeatedly.

No mate guarding.

1 April

1500 Cyndy reports no mate guarding.

4 April

1330 Acorn Count

1° tree = total =

1788

10 April

0800 Climbed hole - empty but some nice new chips.

Loretta saw nothing here yesterday 0800-0900 or today 0900-1000. (May be egg tossing?) Repaired.

12 April

0945 Climbed - empty. Plus, the new flap I put right at the door has not been touched. No pecks, no claw marks.:. no visits in two days. Loretta says the birds spent time toward 1500. I couldn't find any good holes here though.

13 April

1700-1800 Spied but no nest.

19 April

~~0800~~ 0820 No eggs yet (Loretta saw birds at hole 16 April)





1987

M. Stanback

2

M. ~~stans~~ formicivorus1800HNR

- 21 April 1830 Still empty! What's the deal??
- 22 April Loretta reports no interest in the hole this morning!
- 23 April " " bird at hole once during her watch.
- 24 April Katy & Cindy report no luck
- 25 April 1400 I see a bird in the hole, plus some fuss at the hole.
- 28 April pm Walt reports no eggs.
- 1 May Walt reports 2 eggs (numbered #1-2)
- 2 May 1700 Only 3 eggs! 1 2 3  
 $24.35 \times 19.75$   $23.9 \times 19.55$   $24.3 \times 19.4$   
 (eventually laid 5 eggs)
- 12 May 1400 Only eggs 1 & 4 remain (4 is tiny)
- 26 May am helloed holes. No luck.
- 10 June 1520 "
- 19 June 1330 Acorn Count: 555 (No one in hole, but...)
- \* Update: Missed the nest - Walt bands 1 baby
- 17 Aug 0830 See baby and a NOBA Juv along Haystack fence - thus there is another baby to be banded!
- 27 Aug 0945 Saw ♂ 770, ♀ 193, and J 1438 in the large sycamore along the creek well downstream from 1800. Saw a 2<sup>nd</sup> ♀ (presumably 787). These birds are crossing from the sycamore up School Hill. What's this say about the acorn situation.
- 10 Sept 1445 - 1500 Watched hole - nothing
- 12 Sept \* Group Update Members include 770, 193, 774, 787, 1438 and an unbanded (NOBA) juv from the nest we missed.



9

MLB

	low	knot	cur v
<del>low</del>			
CBH	420 = 133.3	420	420
CNH	75 = 23.8	75	100 = 31.5
ht	505		
ang	-40	-20	-60
slop	15	15	15
asp	20	20	20
dir	120	15	5
sp	va	va	va
ta	1	1	1
la	1	0	1
g	0	0	0

M. Formicivorus1800HVHR

23 Sept 1630-1640 Watched hole From lane - nothing.

24 Sept 0750-0850 Watch from distance - from lane and then from 1500 side. I saw one visitation to the traditional hole, but the bird didn't go in - it just looked in then hitched away. I noticed the birds flying over to their live oak snag in the woods alot, and at 0845 I saw the female working on a hole, pulling out chips (she was still having to back out) Can I assume there's no nest (yet). Saw the new juv. Saw 4 birds at least, but as I wasn't censusing, (r far away) I ID'd only ♀ 193 & J = 1438. A rather large limb fell on the uphill side of the gran. They lost one, maybe 2, roost holes and several hundred (250?) storage holes. I took a small piece.

2 Oct 0800-0810 Watched webbing hole - nothing.

0845-0855 Watched live oak snag from last time. No one went near the hole they had been working on, but one bird worked (very) briefly on another hole start not far away.

18 Dec 1600 Acorn Count: 5300 main gran } 5800  
500 tree to east }





1987 M. Stanback

1

M. Formicivorus

Hay Blm

HVHR

7 Jan 1130 Acorn Count: Main gran 1852

Not too accurate, I regret. Better next time

9 Feb # roost holes

Acorn Count: Stump on S side Fence 74

10 Feb " Main granary 2088  
total 3162

Oh yes, at 0900, on my way up Haystack Hill, I noticed 3 ACW's sitting in a tree near the fence near the 'top' of the hill. 2 were ♂♂, they all 3 flew to another tree, and then flew to Y!

24 Mar Saw 1083 (MKB), as well as (maybe) 1206. For this bird I saw OTW. No nestiness

21 Mar 1630-1730 Saw 571, 1083, 1084, 941, 1078, 1206  
No mate guarding

1 April 1345-1445 Nestiness - mg watch. No action.  
a B ♀ sat alone from 1430 to 1445. Last yrs hole is shot. There's a gaping hole going into it from the end of the snag - repair time!

2 April repaired 86 hole

5 April 1650 Acorns 870 (3 way count)

13 April 0630-0815 Snoop & spy. I found a suspect hole in tree uphill from the granary. Climbed it, but wasn't confident in the peep.

15 April 0620-0700 Watched the tree uphill from the granary. Only once did a bird go near the "new" hole - and then only to peck around the bark. Great - the rapido graph is Fucked.



1062

\$  $\frac{LB}{MO}$

1987

M. Stanback

M. Formicivorus

H-B nest record

HNHR

14 May Walt reports 6 eggs still

20 May 1000 3 live babies, one dead baby, and one baby stuck in a half crushed egg (I helped it out)

21 May 4 babies

26 May 3 babies

28 May Katy reports no feeding

29 May 1430 Climb + find ~~4~~ 3 dead babies





M. Formicivorus

H-B

HNHR

(15 April) Anyway, I watched from d.f. places 'til 0830. Then I climbed the 86 hole. World's largest nastiest fungus inside. Also wet & rotten. I cleaned it out best I could. Oh yes from about 0740 - 0800, there was massive flycatching by 7-8 birds on the summit. Scrub jays too. Watching again by 0900. 0920 Well, it's about time. Between 0920 - 0930 birds visited 3 holes (A, B, C) in one tree. Birds entered A & B, stayed in A longest, but visited C most often. See pic on back. C is an old hole with a door located in the base of a small slump (upright)

18 April 0930 - 1030 No luck. No mate guarding. <sup>Stuck</sup> Rapidographs

1 May 1430 No luck helling holes. There's a starling nest near the pitted out hole in the lone tree by the fence.

2 May 1745 spent about 10 min staring at "my" suspect tree from School Hill. No birds flew in or out.

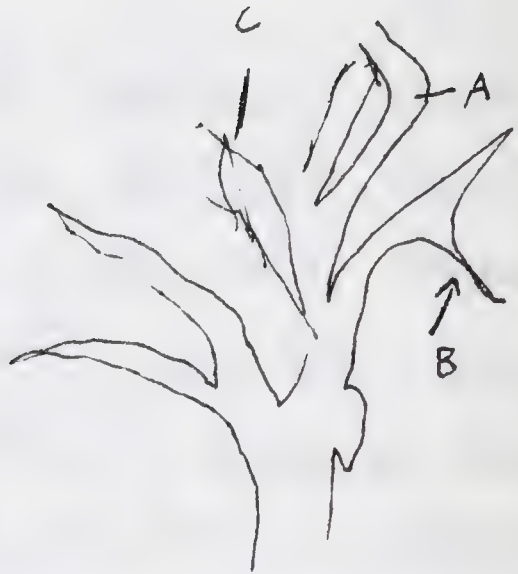
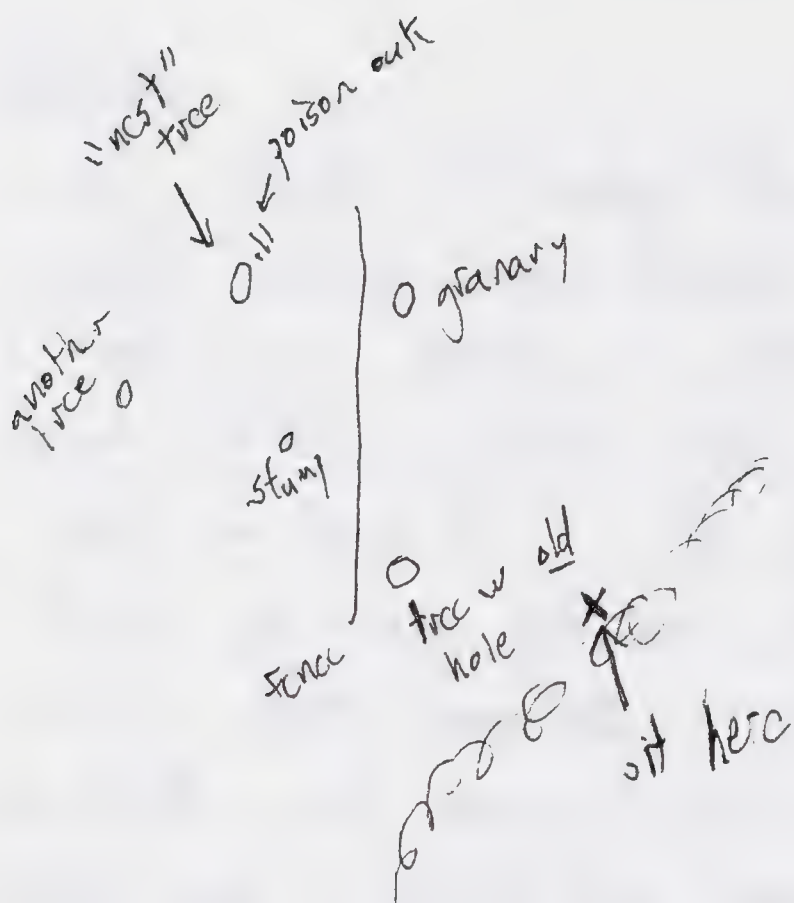
14 May Walt reports all 6 eggs in fine shape in the fence hole.

20 May 1000 checked nest. (Should've done it yesterday). Windy  
 RL = 8.4 LL = 8.4 (seemed smaller) RW = 4.8 [geo, must be back]  
 dead baby = 7.18. There was a baby stuck inside a half hatched - half crushed egg. I helped it out. ~~There's~~  
 I'll assume that all 6 eggs hatched (since there was no egg) 5 are accounted for, but the brood will probably end up as 2.

21 May 1645 RL = 14.5 LL = 12.5 Bk = 9.25 W = 4.25

22 May 1630 RL = 17.1 LL = 16.7 Bk = 10 W = 4.6





taking  
radiograph

M. FormicivorusH-BHNHR

24 May 0650 RL = 21.9 LL = 20.5 Bk = 14.5 r = 4.8

26 May 1430 RL = 28.5 LL = 24.2 = 12.5

TC = 12.5 ( $\bar{Y}$ ) = 12.1

28 May Katy reports no feeding at H-B (Cyndy says very little on 27 May ←)

29 May 1430 Climb + retrieve dead babies. All slightly dehydrated.  
RL = 25.3,  $\bar{Y}$  = 22.1 = 10.5 shit.15 June 1500 Acorn Count: 07 Aug Ron reports ♂♂ 1301 + 1303 setting up on Knoll w  
Y ♀ 1350.

27 Aug ♂♂ 1301 + 1303 still down at Knoll.

\* Group Update Males 1301 + 1303 are now breeders  
at Knoll. Remaining group members: 571, 1083, 1084,  
941, 1078, 1085, 1206.20 Sept 1000-1010 Watched nest tree from far away. Bird near  
old nest hole, but never visited. When I walked  
by at 1020, a bird flushed from my 87 suspect  
tree - from near the broken snag hole. Lotsa <sup>interest</sup> acorns1 Oct 0910-0950 Watched group. I'd 1084, but was far away.  
One time a bird went to a new hole in the suspect  
tree, but didn't go in. I kept watching, and though  
there were other birds in the area (they're storing  
in this tree - the main granary's full), there was no  
more interest in the hole. Birds were however  
repeatedly visiting the PO tree down from the  
granary. Will watch it some. Fucking rapidograph.  
Found it: the old hole w white webbing. Bird at  
hole.



$$\begin{array}{r}
 7700 \\
 540 \\
 500 \\
 20 \\
 \hline
 8760
 \end{array}$$

h h h h

M. FormicivorusH-BHVHR

(1 Oct) 1530 Well, I thought I found it... Ends up there are 2 holes up here. The more likely one was empty. The other was all grown over + rotten + deep so I couldn't check it. No young babies in either (but could be eggs or quiet babes) No bird in hole on arrival.

4 Oct 0850-0915 Watch holes - twice a bird landed on the hole branch just around from the lower hole - I left blind to check - but there's no hole there. Back to blind to watch 0930-0945 Birds in the immed area near the holes - but no hole visitation. Some seemed preoccupied w acorns.

10 Oct 1300 Cruising by see bird at upper hole

11 Oct 1100 Climb (think a bird flushed), empty. I guess I still can't rule out the other hole though.

19 Dec 0800 Acorn Count: main gran: ~ 7700 (2 way +)

tree uphill: 540

stump: 500

log: 20





1987

M. Stanback

M. FormicivorusLow HayHNHR

7 Jan 1100 Acorn Count: Main Gran 4093  
 Snag by T-pole 370  
 Total 4463

Note: on main gran, the painted square low on the downhill side of the tree had 25 acorns.

The painted square high on the front side of the tree had 18 acorns.

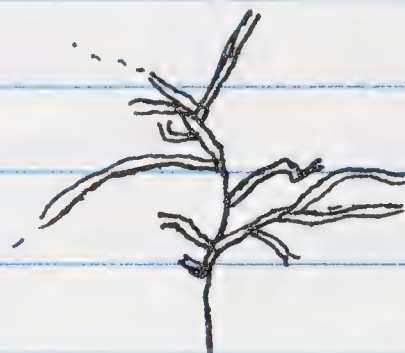
9 Feb 1015 # roost holes: 9

Acorn Count 2233 so far

10 Feb Main Gran 4372

Snag by T-pole 194

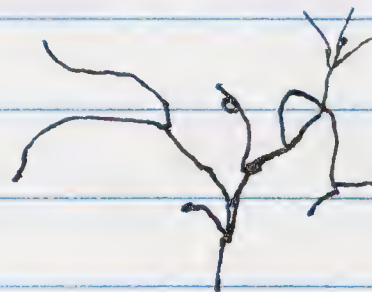
total 4566



from NE

double line = count from Sicks <sup>2</sup>

The Front square had 16, the back 22  
 Saw ♀ 524 and a ♂



24 Mar 1530 Came by to check nestiness. No luck

31 Mar 0730 - 1300. (Cindy reports Power struggle on 30 Mar.)

Up here - trouble setting nets. We catch a bird @ 1000  
 it seems to be the Gate Br ♀ (but it has very  
 brown Feathers. The ruling ♀s here are a pair of  
 sisters of Gazebo - things are considerably quieter  
 now at 1230 than upon arrival. (One of the Gazebo  
 ♀♀ had been removed from the Gaz list. Grrrr.

Other birds seen:

Oriole ♂

MvLB  
M/MvK

YM  
 LB-O/RON

1062 Dark

LG/LBDB

KW

↓  
 Gaz





1987

M. Stanback

2

M. FormicivorusLow HayHNR

5 April 1630 Acorn Count: 3 way count gave 3100. But I'll put total at 3200. East square had 10 acorns, west square 13.

1 May 1400 Bird in hole in granary. Hole has fresh chips but no eggs. This door is a shambles. (I didn't bring DAP up) I checked the hole in the other tree. No fresh chips.

Update: Ian came for egg toss pics, I suggested L HAY. He set up, but only 1 egg was laid (how many ♀♀?). The next day 1 more laid (or did they skip?) Anyway, they've abandoned. Damn.

20 May 1030 So we didn't hafta remove the eggs huh, well, the hole had 4 warm eggs: #1 & #2 from the abandoned nest, a runt egg, and 1 other egg. So the viable clutch size = 1

29 May 1410 Shit!!! 1 baby = 30.8 + 1 egg (#1) Shit.  
TC = 12.7

30 May 1500 ~~34.4~~ 34.4 TC = 13.7 TN = 8.9

1 June 1310 wt 45 TC 15 TN 9.5 BW 6.35 TS = 3.95<sup>+ egg</sup>

2 June 1310 53.6 15.5 9.6 — 10:2.7 T = 5.5

3 June 1320 59.7 — 4.25 — 16.2 10.4 6.5 6.3

wt chor 1's 1'm TC TN BW TS T

4 June 1345 59.5 ←!! 7.3 16.55 10.5 6.8 8.1 10

5 June 1345 67 10.8 16.9 10.7 6.6 10 12.5

6 June 1345 72 40.5 15.4 17.4 11.4 7.05 11.6 16.1

7 June 1410 71 45 19.3 17.8 11.7 7 11.5 19

8 June 1345 75.1 49 19.8(24.2) 17.85 12.1 6.8 13 22.6



00





hypothesis  
FED is being pushed  
later in season due to  
starlings  
(control temp, acorn....)

Blm 1 - Central Canyon - Refs

> 2 at Blm 1 (including BM)

2 at CC (a third was mildly chased)

a CC bird flew toward B1, then back to CC

~~at~~ 2 birds at R1

NOBA 7 at CC

1987

M. Stanback

M. FormicivorusLHAY (and ~~many~~)H/VHR

(19 Dec) No avoiding it... another page for 1987. Well, the intrusions continued. LHAY birds seen: 1266, 1155. Other birds seen (~~actually~~ I'll specify where seen) ♀  $\frac{MBO}{KWN O(m?)}$  seen near 86b nest tree. As I wandered in this direction, down near Bluebird box 206, I noticed ♀  $\overline{LBM} = 1108$  and ♂  $\overline{BY(N)KW}$ . The ♂ I saw only once, but the Fems I saw repeatedly. I think they've taken up residence at the artificial granary tree (styrofoam) by box 206. Problem is, they don't have any acorns stored - so I guess they're theiving from LHAY. And 1427? Just flirting, I guess. Oh yes, I also saw ♀ 1315 ( $\frac{MKO}{MvRON}$ ) near 206 repeatedly. So who is  $\frac{MBO}{KWN O(m?)}$ ? I'm sure it's  $KW(N)$ . Now Ron saw Gate birds up here in August. so we'll say ♀ 1315, ♀ 1108, & ♀ became breeders here at ~~on~~ on.



6

6

1987

Ronald L. Grinnell

1

Balanosphyra formicivoraHastings Reservation, Monterey Co., CA4 Aug

After a delightful breakfast with Jean Linsdale, I walked up Haystack Hill in search of the elusive Acorn Woodpecker. at Hay Blom I saw several (5-6) woodpeckers at a great distance, all too far away to be identified by color-band combinations. At Low Hay, 5 birds actively flycatching around the secondary roost holes SE of the granary. All split as I tried to approach, but I did see J1427 <sup>M/LBlue</sup> DBLue-Yel(N)/DBLue-Wht. Continuing south along ~~Haystack~~ Haystack Ridge, I found 4 birds harvesting and eating green acorns from oaks near the artificial granary set up by Susan Hannon (near bluebird boxes 206 and 207). This assemblage included 2 un-banded males, plus 2 Gate birds: ♂1313 <sup>L6m-Wht(N)/M</sup> L6m-Brn/white and ♀1315 <sup>M/Black-Org</sup> mauve/Red-Org(N). It didn't appear that the formation of a new group here was imminent, but it might be something the young upstarts (Koenig, Sta-back, Hooze, etc.) ~~would~~ would want to keep an eye on.

6 Aug

Rode the new 4-wheeled field vehicle up to the Arnold Place (quite exciting! I wish Annie would have been here to enjoy it as well), arriving at 0600 PST. I was greeted by considerable wakaing, chasing, etc. from Arnold 1. After watching for 3 hours, I finally managed to figure out what was going on:

① The commotion seemed to be the tail end of a power struggle which has resulted in





1987 M. Stanback

1

M. formicivorus

Two Towers

HNHR

- 31 Aug 0800 - 0900 Being sick of trying to figure out where these 2 trees fit in the grand scheme, they now are a place of their own. Upon arrival, Maria & I found @ 5 birds involved in low level chasing. NOBA ♀, J (I think) KWN (only band I saw on right) and (another bird??) w RM. While this was going on, there were birds doing their own thing at Ref 1. It finally broke up (w our help) and at least 4 birds took off up Haystack. When I turned back towards TT, there were 2 birds (one a NOBA ♀) that took off to Ref 1. 1020 ♀ flew out to here from Ref 1.
- 1 Sept 0800 NOBA bird briefly chased by banded ♂. Then banded ♂ flew to Knoll. Heard birds at Ref 1 at same time.
- 6 Oct 0820 Bird flew from Blm 1 to here





1987 M. Stanback

M. Formicivorus

Refute One

HNHR

24 June 1500 Heard birds. Returned at 1630 - pretty dead, but did see a NOBA ♀ a little towards MacR.

27 June 1300ish. At least 2 birds are here (and not at "Central Canyon". A ♂ w O on left and a baby(!) w K-LG/LE-K (1406 from SHW!)  
See Blm 1 Central Canyon

28 June 1100 No birds seen as I walked by. However, underneath the 86 'nest' tree, I found the mummy of an ACW, w (right?) leg intact, w MY. The M band is 902-23318. Pretty lucky find. Back by way of MacRoberts, but saw no birds. Dead bird TN = 13.3

12 July pm Heard birds here.

17 Aug 1000 NOBA ♂ and NOBA ♀ sitting in granary. Occasional drumming.

31 Aug 0800 - 0900 Activity at Ref 1, involving at least 3 birds - some chasing. At 0800 2 birds flew from Two Towers to Ref 1 (NOBA ♀, NOID ♂)  
1020 ♀ flew from Ref 1 to Two Towers

1 Sept 0810 - 0845 Watched. NOBA ♂ & NOBA ♀. Birds at MacR are different birds

\* Group Update : 17 Aug 5265 and 5266 (NOBA ♂ and NOBA ♀)

11 Dec 1230 No acorns stored





1987

M. Stanback

1

M. FormicivorusCentral Canyon

HNHR

27 June 1300ish. A group here! A NOBA ♀, another ♀, and a NOBA ♂. They didn't fly toward Ref 1, but did move up to Blm 1 once, but mostly went to the live trees just up the canyon from the big dead tree (where they like to sit) See also Blm 1 notes, Ref 1 notes.

28 June 1045 Cruised by; saw 1 bird in live oak but no ID. Both live + valley oaks in the ravine have lotsa acorns.

17 Aug 1000 No sign of birds here

24 Sept 1000 Lone bird in top of CC dead tree. Maybe just a spillover from the Blm 1 power struggle.

27 Sept 0645 2 birds here. Still spillover?

11 Dec 1210 (♀?) ACW seen building roost hole in E side of dead tree. View From Ref 1 Only 1 bird seen.

hole is just below broken divot  
hole faces NNE



1210-1235. Yes, A NOBA ♀, seems to be alone. Making hole.





1987 M. Stanback

M. Formicivorus

Blm 1

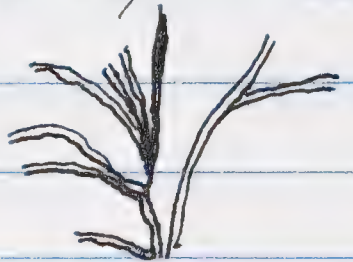
HNR

14 Dec <sup>86</sup> Acorn Count: 1334, but considering that Walt usually gets a couple hundred more than me, and that I rushed through this count, call it 1500

note: why are there so many birds on the Blm 1 Field kst? I'll eat my hat if there are more than 4 on any BM.

10 Feb 1115 Acorn Count 1651

3 April 1300 3 way Acorn count 750



4 May 1430 - 1700 Came up to nest find.

I sat on Far Knoll and watched an Acw go to a cut out hole in the granary. I rushed down, climbed it, and found an empty starling nest. I cleaned it out, destroyed another starling nest (egs) in another cut out hole, Fixed the door at the 85 hole (my first cut out ever - that took too long so then the birds abandoned - scarring me for life).

I was getting ready to climb the 86 b hole (old & noisy starling babies) when I saw a gopher snake was beating me to it (why didn't he go after the uncut hole nearby!) Anyway, it's a relatively low hole, but requires decisions at 3 forks. He was in the nest within @ 5 minutes. He stayed in (w tail out) while I was nearby blocking up the other hole. Talk to Harry about a anti-snake chemical! (4:20-4:25)

16 May 0950-1045 Watched for nestiness. They are busy constructing a new hole low on the w branch of the dead snag. Not eager to be duped again, I watched





1987

M. Stanback

2

M. FormicivorusBlm 1HNHR

(16 May) another bird who just sat forever in the granary. Starlings are everywhere - back in all the holes I cleaned them out of. End sentence w preposition.

10 June 1330 Bird in low snag hole. No eggs.

13 June 1515 Helloed hole, nothing.

15 June 1530 Well, I should have checked it on 13 June. 4 eggs.

Look new. Cut open hole. One egg is huge.

19 June 1100 Still 4 eggs. Bird in hole.

1400 Acorn Count: 15

24 June 1500 Heard birds at Refute 1: who are they? Returned at 1630 - nothing. (No bird in hole at Blm 1) NOBAQ

25 June 0800 Eggs cold. All eggs were Fertile, but development ceased at early stage. Eggs very dif sizes!

#1 28.0 x 21.3 (6.52) Removed eggs From nest. 7

#2 25.0 x 19.95 (5.15) ~~1.52~~ .52 .59

#3 24.7 x 19.85 .48 = shell

#4 24.1 x 19.5 .51

These eggs are stored in Fridge for Future photographic use.

27 June 1300 ish. Saw 1167, but there also seems to be an extra bird here (Field lists only 2), or maybe this has something to do w the new group at "Central Canyon."

1 July 1115 Saw ♀ 1325 in nest snag.

3 July 1100 ♀ at high hole in nest snag. Did NSS measures

1115 a juvenile seen on Blm 1 Knoll (not Far Knoll) I suppose it was a SHW baby.





1987

M. Stanback

3

M. FormicivorusBlm 1HVHR

(3 July) High hole (birds seen in before nesting) ↘ 28.6

dir = 87, ang 25, ht = 10m, CNH = 90, in granary

Starling nest hole (b.s.i. b.n.) ↘ 36.5

dir = 277, ang 70, ht = same as Far out 85, CNH = 115, in granary

Nest hole ↘

dir = 217, ang 65, ht = 2.90m, CNH ~~100~~ <sup>100</sup>, CBH = 156, <sup>dead blue</sup> oak

17 Aug 0930 Trees w lots acorns. Saw ♀ 1325 + ♂ 1167

but also a 3<sup>rd</sup> bird that was chased a little.

Action on the knoll?

31 Aug 0930 Saw 2 birds in Blm 1 granary while sitting on Far Knoll. While here, a NOBA ♂ (I think juv, NOBA) came up to the top of the Knoll, then finally retreated towards OKCO. Saw ♂ 1167

20 Sept 1100 Spied on nest tree from Haystack. Nothing.

24 Sept 1030 - 1115 Power struggle! I think. I see several NOBA ♀♀, banded ♀♀, and various ♂♂ that don't + do belong. Seen: ♂ M LB = (1363), ♂ V.K/YV = (1103) 6920, ♂ M LB <sub>OW</sub>, ♀ KW(N)M = (1325?), ♂ GW(N)/R-LB = (1363) 6920. So its 6920 ♂♂, but who are the NOBA ♀♀?

Not intense enough for netting. Gran has plenty VAOX acorns, knoll trees w lotsa Blue acorns. Call video folks.

25 Sept am Brought video folks up. Quiet chases on knoll.

27 Sept 0700 - Watched from blind. Still a little activity here. ♀ 1325 present, seen sitting w Juv ♂ (white wings) and ♂ 1167 (the B ♂ that I thought had died) <sup>← maybe becoming ♀</sup>. Yes, a family: 1167, 1325, + NOBA Juv. Shift, I missed a nest. So whence the commotion these past days?





M. formicivorusBlm 1HNHR

(27 Sept) Oh yes, there are lots of starlings here today. Well, so what happened here... My theory... There was > 1 B♂ here (Find out if ♂ 1167 had any eligible brothers), but then that bird died @ 870923. The eager H ♂ in the neighborhood perceived this as a vacancy and tried for it. But no go.

6 Oct 0820 Several NOBAs one flew to Two Tower

♂1063 from Dark <sup>NWR</sup><sub>WLG/GW(N)</sub> seen by Connie at Blm 1. Whence, where, & why?

\* Group Update \* Weirdness here. Both 1167 and 1325 are present, but so are 1063 from Dark Hollow (871106) and 1307 (DKHW), plus addit. NOBA ♂♂ & ♀♀. These extra birds are not yet considered group members.

11 Dec 1445 NOBA ♀ seen. High high hole is completed. Acorns  
 2 way count (W+E) yields 5000 acorns. Assume a  
 3 way count would yield ~ 7000 } total 7050  
 very leany tree by road ~ 85





1987 M. Stanback

M. Formicivorus

Blm 2

HNHR

14 Dec '86 1500 Acorn Count: 91 in string tree

7 Jan 1200 ♂ ACW in gran tree. Saw only a few acorns  
This ♂ was rather dusky. (Grayish breast, etc)

1430 Dusky ♂ seen again. He flew from granary to mistletoe tree 100 m toward Hastings. He then flew back over the granary and toward Blm 3-DKHW. However, he zipped into a low tree at the edge of the gully @ 200 yds to the N. This is right where Katie showed me the new hole!

Thus the new Hole is a Blm 2, not a Blm 3 hole.  
May be worth a roost watch here.

28 Jan 1330 ♂ with LB/BK-Y seen alone here. What's this  
shit in the field <sup>list</sup> ~~was~~ about a ♀?

13 May Walt reports birds here.

31 Aug 0930 See 2 birds here From Far Knoll.

11 Dec Connie reports > 2 birds here. See her notes.

Acorns: Main gran 1080  
tree uphill 50  
tree W. of ♂ 120 } 1250 total not shabby!!





1987

M. Stanback

1

M. FormicivorusBlm 336 at nest treeHNHR

14 Dec '86

1515 Acorn Count: 195 at Raj Hollow1632 at Blm 3 proper1863 total.

The Rajn hollow granary is relatively new (1986) and is 150 yds W of Blm 3 proper. This is a fairly accurate count due to the concentration of the acorns in the "proper" granary (and its lowness)  $\therefore$  these values shouldn't have to be inflated.

22 Feb

1200 Acorn Count: Blm 3 : 2128nest tree : 3Raj hollow : 3total : 2134} 2134

hmm  $\therefore$  so I saw lots more on this count at Blm 3.

I think this is because I used a scope this time

Birds seen : 989, 1261, 1262 : all good ID's

34 Mar

1430 K/LB-W ♂

2 April

Ah, Katy says they've been minus a ♀

3 April

1200 3 way Acorn Count 1356

5 April

1520 ♂ 989 in gran w starlings

23 April

1530 Power struggle. But its taking place over in the Rajish 2<sup>o</sup> granary. Birds in Power are 2 ♀♀s:

RON/M

(is this 1160 From OKCO)

BWN/MvLBR-DB/WR

) same bird

Y-G/Y-G

1119

also saw  $\frac{MO}{O.B} = 1170$  she was sitting quietly at the periphery awaiting her demise.





1987 M. Stanback

2

M. Formicivorus

Blm 3

HNHR

- 18 May 1000 Cruised by. Saw sev birds, but no nests.
- 27 May pm Cruised for nests - saw nothing.
- 19 June 1410 Acorn Count: 305
- 1 July 0900 Saw ♀ WM (for sure - though the W could have been a faded anything) w 2 ♂♂ in the 86 nest tree.  
1100 Flushed ♂ 1262 From granary - he flew in the direction of the "Blm 3 annex" granary, over at Rajn saddle. When I got there, there was a ♂ & ♀ in the tree. At first I thought I saw OKW on her, but when I saw that leg again, it looked like LBOL. The left leg looked like W-LB. So... not a great ID, but she's not 1170. Problem, when the ♂ & ♀ finally flushed from "Blm 3 annex" they flew toward Gazebo - who are these birds!?!  
17 Aug 1600 No action at Blm 3 gran area - however, Blm 3 annex had at least 4 birds, including a ♀. They were on the hill S of the annex granary, almost making me wonder whether they are Gazo! I think they are Gazo.
- 22 Aug 0945 ♀ 1261 (was H) seen w NDBA ♂♂ near CV2.
- 26 Aug 0830 - 0930 Power struggle or some such weirdness. Dark Hollow birds involved in some peripheral chases. Only 2 ♀♀s seen though - its as if they've won and are getting to know the ♂♂s reluctantly. ♂♂ seen: 1262 and a ♂ not on the Field list = ♂ YRY M-. No sign of RWRW →



1. 2. 3. 4. 5. 6. 7. 8. 9. 10.

28.5  
56.7  
85.2

1987

M. Stanback

3

M. FormicivorusBlm 3

(26 Aug) ♂ 989. The 2 ♀♀ are  $\frac{R-K/W-R}{Y-W/Y-W}$  and  $\frac{Y/M_v}{Y/M_v}$ . Hey, whoa! ♂ 989 is here! The males  $\xrightarrow{LP}$   $\xrightarrow{LP}$  don't like the ♀♀'s.

12 Sept \*Group Update\* ♀ 1119 from CV2 and her sister  $\frac{Y/M_v}{Y/M_v}$  are now the Blm 3 breeder ♀♀. 1119 disappeared from CV2 in 1985 (I believe) and was sighted in March 86 (I believe). She showed up at Blm 3 power struggle 870423, but was repelled by daughters (Tuck effect). On 870826 seen winning Blm 3 ps. A ♂ showed up at that ps whom we couldn't find on the computer ( $\frac{RWRW}{n}$ ). Couldn't find the "sister" on the computer. She's out there - let's get a good ID. Blm 3 daughters: After holding off the power struggle of 870423, ♀ 1261 and ♀ 1170 were forced out during the p.s. of 8708. ♀ 1261 founded a group with 2 NOBA ♂♂ called "MILL". She was first seen there 870822. ♀ 1170 showed up at CV1 (with her sister 945) on 870831. Interestingly 945 "knows" 1170 as her sister, but doesn't know 1261, and didn't let 1261 share CV1!

22 Sept 0845 - 0915 Watch From blind. Nothing. As I walked in, I saw ♂ 1262 and 2 other birds.

10 Oct 0940 Saw ♂ 989.

\* \* Group Update \* Still wierd. On 871119 a NOBA ♀ was keeping a NOID banded ♀ out of the granary.

18 Dec Acorn Count: 3100 in main gran (Raj gran had 10)

Saw NOBA ♀ (also saw owl attack B. towhee)





1987

M. Stanback

M. FormicivorusGazebo

HAKHR

14 Dec '86

1630

Acorn Count:

a)

659

1° gran (near Gazebo itself)

b) 174

tree w b.b. box 328

c) 213

tree uphill from ↑

d) 211

stump in field

e) 18

tree to W with balancing limb

1275totalGaz  
↓

c) • e)

• a)

• b)

• d)

22 Feb

1300

Acorn Count

a) 850 (est)

\* was it really 1030, or did I  
forget to 0 it from 245

b) 300

c) 261

d) 195

e) 0

total

1606\*1606\* + 69<sup>in</sup> hanging piecetotal = 1677

24 Mar

Saw 9 653. They occupy quite far down toward CWR

3 April

1200

Acorn Count

a) 650

b) 140

total = 1064

c) 253

d) 121

e) 0

Apr.

(1 hr) Fucking myidograph. Climbed knot hole -

had starling nest start I couldn't reach. Low holes:

1 empty, the other I couldn't reach.

21 April

1600

Knot hole is clear of starling debris, but there's

Fecal matter in there and no new chips.

26 April

1240

Gaz birds competing for knot-hole w starling. Pecked &amp;

chased starling whenever possible.





1987 M. Stanback

2

M. FormicivorusGazeboHNR

2 May 1600 Empty hole - and no fresh chips.

5 May 1630 Katy reported bird in F troop hole yesterday. I climbed it. Empty. Just a latrine. Spied on knot hole from 1640 - 1700. Then went &amp; helbed holes. No luck. No motivation.

6 May 1500 Watch bird go into F troop hole. What's up?  
1600 A bird in hole #17 (the low low hole) !!!

7 May 1400 Sneaky. 6 well incubated opaque eggs. The door could use some work. Left ladder there.

Uh, am I to assume 1 ♀ laid 6 eggs?

10 May 1700 They're hatching (or hatched this am) I could see 1 unhatched egg. I didn't have proper equipment for weighing, so I'll do it tomorrow.

11 May 0645 RL = 6.2 LL = 5.7 BK = 4.65

RW = 8.8 LW = 3.65 (was pecked on wing)

12 May 0630 RL = 9.25 LL = 9.2 BK = 7.45

RW = 11.95 LW = 5.9 egg still there

13 May 0615 RL 13.2 LL 11.6 BK 10.4

RW 15.6 LW 7.19 egg there

14 May 0745 RL 18.2 LL 16.6 BK 14.2

RW 19.5 LW 10.6 egg there

15 May 1530 RL 23.8 LL 22.3 BK 20.6

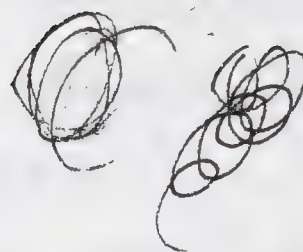
RW 27.9 LW 17.0

16 May 1540 RL 27.9 LL 26.2 BK 25.8

RW 32.7 LW 19.9

17 May 1600 RL 34, 13.35 LL 29.3, 13 BK 30, 12  
RW 36.8, 13.7 LW 23.7





1987 M. Stanback

3

M. FormicivorusGazebo

18 May	Time	Bird	WT	1°	1° S	TC	TN	G	BW	T	TS	chor	<sup>2</sup> 3
	1545	RL <sup>3.2</sup>	37.3			14.3	10						
		RW <sup>3.9</sup>	40.7			14.6	9.5		6.85				
		LL <sup>4.5</sup>	33.9			13.9	8.9						
		LW <sup>4.5</sup>	28.2			13	8.5						
		Bk <sup>4.2</sup>	30.8			12.6	8.3						
19 May	1630	RL	41.8			14.9	10.3		7.2				
		RW	46.4			15.5	9.9		7.4				
		LL	36.1			14.5	9.4		6.8				
		LW	27.8			14.2	9.3		6.8				
		Bk	37.5			13.5	9.1		6.9				
20 May	1545	B	50.7			15.8	11.1		7.1				
		K	50.9			16.1	10.5		7.2				
		P	42.6			15.8	9.9		6.7				
		G	32.5			14.8	10		6.7				
		W	42.5			14.1	9.5		7.1				
21 May	1530	B	52.2	4.2		16.5	11.3		7.1		2.2		
		K	54.9	4.2		16.65	10.45		7.25		3.7		
		P	48.4	2.5		16.1	10.5		6.7				
		G	39			15.5	10.4		6.8		not looking good		
		W	48.1			15	10		6.8				
22 May	1400	B	58.8	6.3		17	11.8		7.25		2.9		
		K	59.8	6.7		17.3	11.3		7.25		5.7		
		P	49.1	4		16.5	10.9		6.7		3		
		G	40.3			16.5	10.8		6.9				
		W	51.2	2.7		15.6	10.5		7				





1987

M. Stanback

M. Formicivorus

Gazebo Nest Record

HVHR

7 May 1400 6 incubated eggs in the low hole

10 May 1700 5 babies (hatched today) + 1 egg  
banded + bled 5 babies





1987 M. Stanback

4

M. Formicivorus

Gazebo

ANHR

Date	Time	Wt	Chow	1°S	1°u	TC	TN	BW	TS	T
24 May	1600	<del>1600</del> 1600								
		W 65		8.7		16.7	11.3	7.2	3.7	
		K 68.5		14.4		18.5	12.2	7.4	10.3	11
		B 65.5		13		18.7	12.5	6.9	7.5	
		G 51		4.1		17.8	11.8	7.2	2.4	
		P 63		10.7		17.65	11.9	7.1	5.9	
26 May	1615	G 56.2		9.5		18.7	12.4	7.3	4.2	6.2
		K 75.5		20 23		19.5	13.1	7.6	13.9	18.8
		B 70.9		20.1 22.5		19.8	13.9	7.4	10.55	13.6
		P 65.1		17.1 18.1		18.8	12.8	7.15	10.1	11
		W 67.8		16.3 -		17.8	12.2	7.1	7.3	10
28 May	1550	W 73	51.5	23.3	25.5	18.4	12.6	7.5	9.2	16
		P 74.5	52	20.5	27.7	19.5	12.9	7.3	10.9	16.7
		G 63.5	40	15.2	17.4	19.8	13.1	7.8	5.4	10.4
		B 73.5	57	23.5	33.2	20.6	13.9	7.55	10	19.2
		K <del>54</del> 78	59	20.8	32.8	20.4	13.8	7.8	15.2	25.3
		all are filthy. W is sneezing - I think it was last time too.								
1 June	1430	P 75.3	72	48.2	23.5	20.8	14.1	7.4	30.1	18
		K 87.3	78	54.6	25	21.85	14.7	7.75	38.6	21.6
		G 76.8	62	36.9	27.5	21	14.3	7.8	(16.5) broken	12.5
		W 80.1	70	46.2	25.7	19.35	13.55	7.6	29.1	16.5
		B 82.9	77	53	25	21.8	15.3	7.8	32	14.8
3 June	1430	P 87.2	86	29.2	59.6	21.45	15	7.8	20.2	38
		B 89	89	27	64.2	22.8	16.3	7.7	16.5	36.2
		G 82.1	74	31.4	48.2	22	15.1	7.8	14.8	(25 broken)
		K 89	91	27.1	64.7	22.8	15.4	8.05	24.3	46
		W 82	83	26.7	56.8	19.75	14.55	7.3	18.2	35.5
		all are really filthy								





1987

M. Stanback

5

M. FormicivorusGazeboH/VHR

6 June 0700 B = RB 87.5 105 30 78 24.1 17.1 8.1 22.5 45

W = G 83 97 26.6 71 21.6 15.3 7.5 21.5 44.6

G = RG 81.5 90 32.3 62.3 23 16 8 21.2 (13) 2

? K = R = B 87 106 26.9 79.4 23.7 16.2 8 28.1 54.2

P = R 83.7 99 24.5 74 22.5 15.9 7.5 24.4 47.4

very dirty babies sh → end

8 June 1430 P 79.5 109 28.5 (56.7) 23.2 16.15 7.6 29.5 54.8

W 77.1 108.5 21 81 23.05 16.1 7.65 17 51.6

2 18 B 85 115 24 (64.5) 24.8 17.6 7.9 16.7 53.8

1 15 K 79.2 109 26.6 85.6 24.5 17 8 16.5 (45)

3 16 G 83.5 100 25.4 72.5 23.6 16.75 7.55 22 \$42 broke

W fledged as I was leaving - I shoved him back in the hole.

When I finally pulled the banana, he stuck his head out, but didn't fly (as far as I could tell) [when he bolted, he

couldn't fly] There was shit an inch deep in the hole.

I cleaned some (most) of it out before deciding that was a bad idea - now predators will smell baby w/ shit all around the tree.

15 June 1515 Acorn Count: stump = 30

no sign of kids

main = 260

(or anybody)

box = 30

= 50

total = 376

Starlings in the knot hole - will return to remove.

16 June pm cleaned out starling nest. Only 1 baby.

18 June heard babies at 1015

19 June 1030 Set up blind. Checked nest for death. Couldn't reach all the way in, but didn't feel any death. Let's hope these were shit bugs, not death bugs (Fucking rapidograph)



15 K  
16 α  
18 B

1987 M. Stanback

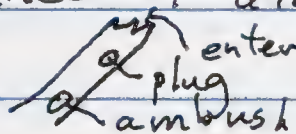
6

M. Formicivorus

Gazebo

HVHR

25 June Set ambush in tree w fallen limb hanging. Plugged top entrance. Babies pecked at, etc & messed/pulled pins (but still went in). However, a 3<sup>rd</sup> entrance I didn't detect ruined everything.

 enter thru top  
plug  
ambush

27 June 0815 - 1115 Baby watch. Hmm, it makes me wonder about the quality of field assts. In 3 hrs I got the whole hierarchy, while Loretta's been here for days and has turned up next to nothing. Anyway 1415 >> 1416, 1415 > 1418, 1418 > 1416  $\therefore$  15 > 18 > 16

28 June 0830 - 1111 Juv watch. J 1416 was hanging out inside the cozy hole facing E in the gold string tree. ♂ 718 was delivering food to him in the hole! Worthless watch - saw only 1 kid. Also 653, 718, 1363.  
1615 - 1650 - Watch - nothing - Sorry Loretta.

3 July Cyndy reports babies roosting in the hole they've been playing in.

5 July 1915 Saw ♂ 718 and some baby interactions: 1415 >>> 1416. The birds didn't like the ambusher. Is Gazo really down to 2 kids from the orig 5!?

17 Aug 1620 Saw J 1416 here. Are the birds at Blm 3 annex Gazo birds? Yes, but they're hanging out S of the annex. Saw ♀ 653, 1415 J, also 1103 (think I did - it was MOW) But who is BKM? Yes, Gazo's just harvesting.

21 Sept 1015-20 Saw 718, 1103, 1363, ♂ 1416. Set blind.



26

-21

40  
2600  
1000  
2100  
850  

---

5390

1987

M. Stanback

7

M. FormicivorusGazeboHNHR

(21 Sept) 1045 Saw 1415 with, I think, ♀ 653. For 718 & 1363 I saw LB KW and GWV RLB respectively.

22 Sept 0715-0815 Watched granary area from blind. No interest in any of the holes in the gran area. Birds didn't seem to be going in the direction of the 87 nest tree. Some activity at the tree w the broken uphill limb just w of the dirt road 100 yds N of the stump. Saw 653, 1103, 1416, and (♀) 1415. During this hour there were 2 intrusion episodes. In one case the intruder was KWV/W-O. This bird was chased by ♂ 1103.

24 Sept 1100 ♂♂ 1103 & 1363 at Blm 1 Power Struggle!  
 \* Group Update \* ♀ 1415, ♂ 1416, 1414 NSAB, <sup>1417</sup>NSAB  
 1418 lost 870627, not seen 870705, dis 870701 ± 5 D

18 Dec 1200 Acorn Count: W tree : 40 (snag)

SW tree : 600

gold string tree : 1000

main tree : 2900

stump : 850 (but some were pretty deep)

total

5390





1987

M. Stanback

M. Formicivorus

CVGR

HNHR

- 14 Dec '86 1600 Acorn Count 1798, but I probably missed some, + Walter Factor = 1800 total = 1900
- 28 Jan 1315 Saw ♀ w YM (1040)
- 3 Feb 1515 Saw ♂ 837 (no)
- 22 Feb 1345 Acorn Count 2010
- 24 Mar Saw ♂ w ♂ Could be 837 or 943. Also saw 1284  
1430 Bird in CVGR 85 nest hole. Flushed on arrival.
- 25 Mar 0815 - 0900 Watching 85 hole. No ACU's anywhere near. Nuttall's, however, were w/in 30 yds almost entire time, drumming, vocalizing, chasing etc. None checked out this hole, however. The door is missing from the Rajn nest hole, so it looks like that hole is no longer a candidate. Cut new (low!) door in 85 hole
- 29 Mar Cindy says ♀ spent an hour in a high, inaccessible rotten hole. A nest? This early? In that hole? Let's hope not! Cindy will watch there in the early am. <sup>(no one in hole)</sup>
- 2 April a.m. Heavy duty mate guarding. Cindy says check snag by c.v. road.
- 3 April 0945 3 way Acorn count : 1291  
86 nest hole in good shape! the high, nasty, granary hole!
- 4 April 1615 ♀ 1040 Beside hole on arrival. She then went inside and immediately stuck her head out. (Was that a wood chip on her bill? Let's hope so) She had her head out most of the time for the next 10 minutes. She left the hole and flew to another branch. No one went to the hole for the next 5 mins. Then they all left gran alarmed. None went to 86 hole. Damn.



↑ WRM chase

$$6.45 = 6.5 \quad 5.1$$

$$\begin{array}{r} 6.5 \\ - 1.4 \\ \hline 5.1 \end{array}$$

1987

M. Stanback

2

M. FormicivorusCVGRHNHR

5 April Cyndy & I clogged up the high rotten hole in the granary  
So much for nest site selection.

8 April 86 hole empty

9 April 85 hole (F troop) empty, dirty - not looking nesty.

12 April 86 hole empty, but in good shape. The hole below  
it and to the left (dead starling 86) has too  
thick-deep an entrance for peeping, but I thought  
I saw a bird Flush from here (?) the other day.

13 April 1630 Bird at 86 hole on arrival. No eggs.

14 April 0615

15 April 1700 Eggs! #1 5.1 g 25.7 19.25 a?

#2 5.1 g 24.45 19.35

16 April 1630

#3 5.1 g

25.0 19.4

a?

#4 5.1 g

24.5 19.4

b?

17 April 1700 only 4 eggs! Did the incub watch begin too early?

28 April 1430

#5

24.6 19.5

b?

#6

25.25 19.4

a?

My guess is that the "incub" watch did begin too  
early and that the blind was too close.

28 April 1800 Eggs #5, 3, 2 pipping (especially #5). #3 prepped  
at me. Eggs 4 & 6 stayed in the egg holder while  
I climbed down. I hope they're OK.

29 April 0700 Eggs 1-4 hatched. 5's pip may be a crack-wound.

Time

Egg #

2

3

1

4

6

LL

RL

LW

RW

4.35

4.38

4.31

3.85

30 April 0600

6.25

7.1

6.85

5.15

4.17





1987

M. Stanback

M. formicivorus

CVGR Nest Record

HN/HR

15 April	1700	2 eggs
16 April	1630	4 eggs
17 April	1700	4 eggs (never disturb the nest in the am)
24 April	1430	6 eggs
29 April	0700	4 eggs just hatched
30 April	0600	5 babies
3 May	0645	4 live babies, 1 dead
11 May	0615	nest empty (they were here yesterday)





1987 M. Stanback

3

M. FormicivorusCVGRHNHR

1 May	0615	RL	LL	RW	LW	
		11.1	10.4	8.7	10.7	7.18
2 May	1330	17.2	12.0	14.0	15.5	<del>11.5</del> 11.5
3 May	0645	18.75	(11.1)	14.9	17.8	14.4

LL baby was found dead. 2 toes on right leg were eaten, 1 toe from left foot eaten. Neck & right wing eaten from. Abd puncture. Peck hole on right cheek. Egg still there.

4 May	0600	RL = B	RW = Y	LW = S	Back
	egg there	23.4	18.4	22.6	18.2

5 May	0600	30.6	23.9	27.1	23.4	egg
	TC	11	10.7	10.9	11.1	
	TN	7.8	7.7	7.8	7.6	

Coretta reports last egg was tossed this afternoon.

6 May	0630	37.4	29.6	33.5	29.9
	TC	12.2	12.2	11.9	12.0
	TN	8.2	8.3	8.4	8.2

7 May	0615	42.7	35.6	39.4	35.6
		13.2	13	12.7	13
		9.1	8.8	8.8	8.8

8 May	0615	<del>41.7</del> 47	39.0	44.2	42.2
		14.2	14	13.5	14.1
		9.7	9.7	9.2	9.5
		5.4	5.4	5.7	5.0
		6.7	6.7	6.5	7.0
		L ≥ U	L >> U	L ≥ U	L >> U



$$\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

1987 M. Stanback

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M. FormicivorusCVGRHVHR

10 May 1230 Bird wt TC TN 1° Tail BW G

NOBA 58.5 15.7 11 2.5 2.5 7.5 6.3

S 60.1 15.25 11.25 4.45 3.1 7.2 6.9

Y 55.5 16.1 11.3 2.5 2.8 7.1 7.0

B 63.9 15.8 11.1 5.5 4.6 6.8 6.8

11 May 0615 Predated. All babies gone - no mess.

14 May 1000 Saw birds near the hole

16 May 1430 Hole empty.

18 May 0810 Within a couple minutes saw birds go to the very thick walled hole below + toward Blm 3 from the previous nest (same limb). They're also sitting w/in a couple feet of it a lot.

22 May 1430 2 fresh eggs (#1, 2). Please not another fucking toss exp!!

2 June pm 6 eggs + bird in hole. Set up blind BK

4 June 1200 RL = 6.35 LL = 5.9 RW = 6.8 LW = 4.4 7.3

5 June 0730<sup>egg</sup> RL = 8.4 LL = 9.0 RW = 8.85 LW = 5.4 B = 9.8

6 June 0740 RL = 11.3 LL = 12.5 RW = 12.4 LW = 8.25 BK = 13.8 r = 3.5

I've never seen a baby alive below 4 g.

7 June 0815 15.3 15.6 15.75 10.8 17.1 2.8

2.8 g For a live baby must be a record (he's only got a couple hrs)

8 June 1315 19.9 21.4 22.5 15.2 22.5

9 June 1240 25.4 23 26 19 26.4

10 June 1230 29.8<sup>K</sup> 29.9<sup>B</sup> 30.1<sup>M</sup> 22.1 29.9<sup>P</sup> weigh bef banding11 June 1300 36.5(12.1)<sup>TC</sup> 35.4(12.9) 35.9(12.85) \*26.1(11.1) 35.7(12.6) = weigh w/o band35.5<sup>5.7</sup> 34.4<sup>4.5</sup> 34.9<sup>4.8</sup> 25.1<sup>band</sup> → 25.2<sup>4.8</sup> 34.7<sup>4.8</sup> band = .1 g12 June 1350 42(13.2)<sup>6.5</sup> 43.8(13.7)<sup>7.4</sup> 42.5(13.95)<sup>7.6</sup> \*31.4(11.95)<sup>6.5</sup> 42.8(13.65)<sup>9.1</sup>





1987 M. Stanback

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M. formicivorusCUGR#NHR

13 June	Time	Bird	wt	choo	1° <sub>s</sub>	1°	TC	TN	BW	TS	T
	1330	B	50.8				14.55	10			
		M	50				14.8	9.9			
		K	49				14	9.7			
		P	46.5				14.4	10.2			
		-	38.2				12.6	8.35			
14 June	1510	B	52.5	+	1.5		15.4	10.5	7.1	"5"	
		M	50	0	2.7		15.5	10.9		3	eyes open
		K	49.9	+	<del>1.7</del> 1.7		14.6	10.3	7.4	1.5	
		P	48.4	+	2.2		15.15	10.8	6.5	3.7	
		-	38	-			13.45	8.75			
15 June	1115	Acorn Count : <u>175</u>									
16 June	1400	B	62		6.5		17.05	11.75	7	6	7
		M	57.5		7.55		16.85	11.9	7.2	3.4	6.4
		P	55.9		7.2		16.6	11.4	6.8	7.9	
		K	59.1		7.3		15.9	11.2	7.1	4.7	
		-	48.3		2.5		15.1	10.2	6.6	3	
18 June	1045	K	64.5	40.5	14		17.25	12.1	7.2	6	9.3 (2)
		M	60	38.5	15.3		18.2	12.8	7.45	5.5	12 (3)
		B	65	38.5	13.3		18.15	12.4	7.1	8	13 (2)
		P	58.1	38.5	14.7		17.55	12.05	7	8.8	14.1 (3)
		-	56.1	28.5	5.5		16.4	10.95	6.55	4.5	5.5
20 June	1040	K	68	51	19.5	23.2	18.25	12.9	7.2	11.5	16
		-	59	32	12.1	12.8	17.9	11.9	6.8	9.5	12.5 (2)
		M	68.1	50.5	19.5	24.5	19.4	13.3	7.5	11.2	19.2
		B	68.5	48	17.7	23.1	19.15	13.3	7.3	12.1	(2.2)
		P	60	49	18.7	23.5	18.75	12.9	7	12	<del>22</del> 21.3



get bb growth rates  
from vas to control  
for weather

N American Maps



1987 M. Stanback

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M. FormicivorusCVGRHMR

21 June 1550 M 68.3 57 25 30.2 19.65 13.65 7.3 12.9 23.4

P 63 55 20 29.3 19.2 13.6 7 15.8 25.4

K 67 57 22.5 29.4 18.7 13 7.3 12.2 20.1

- 59.9 43 13.8 17.8 18.25 12.2 6.7 8.4 15.5

B 70.5 55 19.5 28.6 19.9 13.6 7.3 14.8 25.8

24 June 1540 B 84.2 71 28 45.2 21.2 14.55 7.8 20 36.3

K 78.2 74 29.4 45.6 19.8 14.2 7.45 16.6 30

- 69.9 60 21.1 33.2 19.25 13.2 7 14.3 26.8

P 73.3 72.5 25.6 45.3 20.4 14.3 7 17.5 36

M 76 73 27 45.7 20.7 14.65 7.65 13.3 32.9

26 June ① 1515 K 78 84 28.2 56.8 20.9 15 7.7 17 36 3 || 36, 36, 37

1431 ② M 78.2 84.5 25.4 56.4 21.75 15.75 8.1 17.1 38.2 || 37, 35

1432 ③ - 74 71 24.2 44.2 20.2 14.2 7.2 16.7 33.3 || 34 32/96  
34.5

1433 ④ B 82 82 27.2 55.85 22.1 15.8 7.9 19.6 42.5 || 32.5/95

1434 ⑤ P 83.5 24.2 55.55 21.25 15.9 7.5 18.8 42.3 || 18/47

Shit, not only do I forget to write down P's wt, but damn B & P refused to bleed. Ruined my fucking day. Now I'll hafta come bloody do it again. Didn't band today - where are the bands?

28 June 1530 K 74 95 29.5 67.2 21.95 15.4 7.8 19.2 42.95

M 75.5 93 22.2 66.2 22.95 16.1 8.2 17.5 43.2

B 82 93 25.5 66 23 16.1 8.05 21.2 49.5

- 71 82 25.7 55 21.4 14.8 7.25 18 39.4

P 70 93 27 65.5 22.2 16.2 7.6 21.2 48

Banded all and rebled P & B,  $K = \frac{DG - FN}{LG - O} / \frac{K}{M} = 1430$  $M = \frac{mv}{LB - DP} / \frac{M}{DG - R(N)} = 1431$   $\bar{R} = \frac{Y - DB}{n} / \frac{R - DE}{R} = 1432$  $B = \frac{O - LB}{D.P - K} / \frac{D.B}{n} = 1433$   $P = \frac{P.P - LP}{LP} / \frac{M}{Mv - D.B} = 1434$



45  
31 J 409  
124  
16.0  
15

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M. Formicivorus

CVGR

HNHR

30 June 1500-  
1530 K (G) 68.5 104 25.5 75 22.5 16 7.7 19 48  
R(R) 67.1 90 26.7 64.5 22.2 15.4 7.35 19.2 44.9  
P(B) 69 101.5 27.5 74.2 23.75 17 7.8 18.9 54.3  
B(B) 76 103 29 75.3 23.45 16.35 7.8 16.6 55.3  
M(G) 74 102 25.8 75 23.5 16.6 8.35 16 50

5 July 1400 Baby w head out of hole - no kids in granary.

6 July 0615 I think I hear babies out of the nest.

1700 set blind for "nest" watch tomorrow.

7 July MBR: NW 1. Saw babies 1430, 1434, 1431

↳ 1284 only bird seen Feeding the kid still in nest.  
Interactions are going to be tough. They're out of acorns, so the granary isn't focal. Babies are spread out from the road all the way to RATV.

9 July 0900 - 1000 Watch - worthless, but baby still in nest.

10 July pm Cruising by I notice babies in the granary

12 July 1500 - 1600 Worthless granary watch. 1 bird showed.

15 July Ambush in F-Troop hole (CVGR 85 nest) Didn't catch any kids. Philip put on 2 radios.

1079 85.3 146 31.6 24.2 8.6 73

1042 79.5 140 31.9 24.65 79

1081 80.5 145 29.97 22.9

1285 82

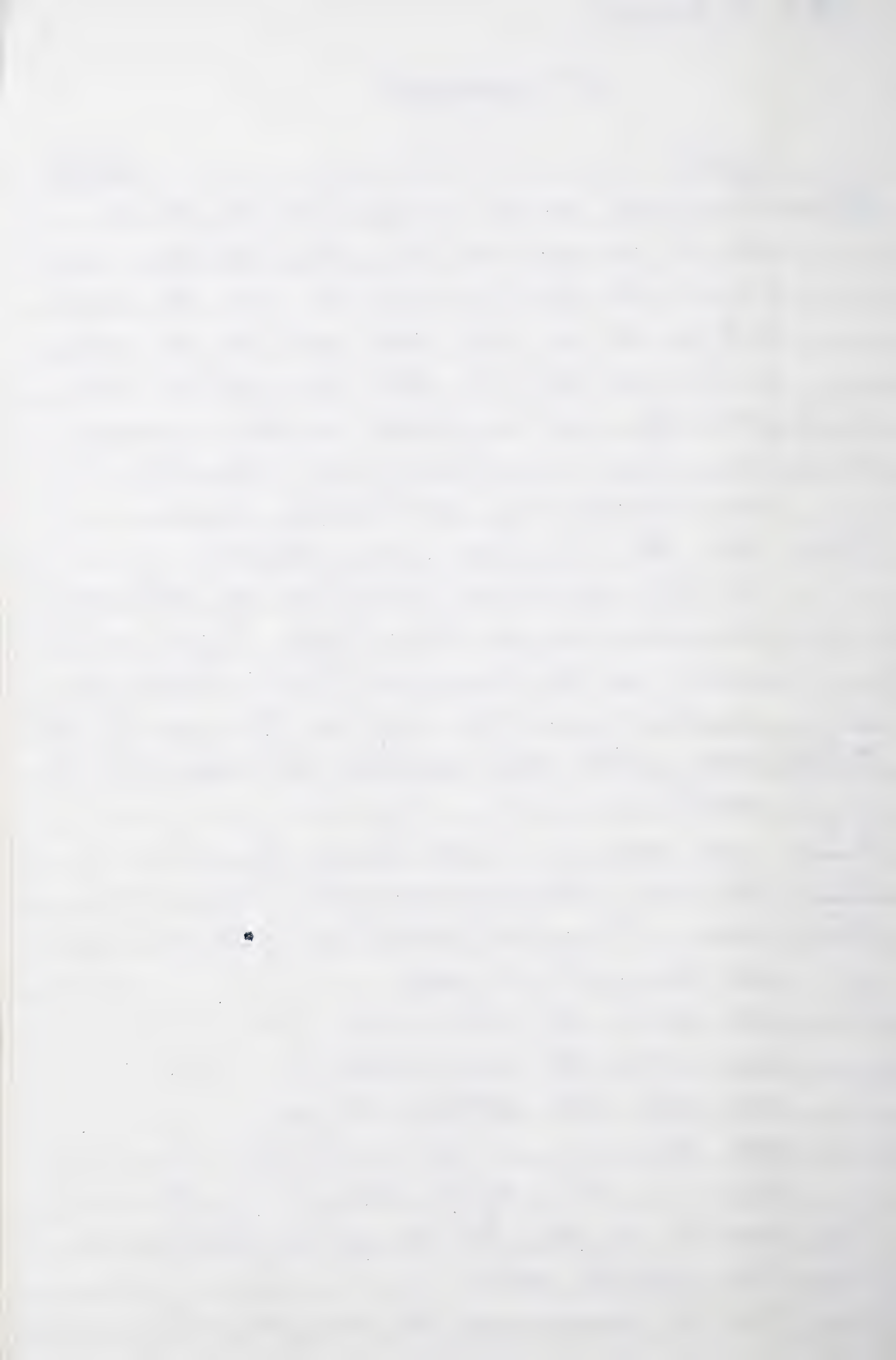
837 151 32.45 25.1 70

17 July 1300 NSS Ht = 580, <sup>N</sup>CH = 140, ang = -21, dir = 45 live va

8 Aug 1730 Found both radios.

15 Aug 1340 - 1430 Granary census: 837, 1042, 1079, 1430





M. FormicivorusCVGRHNHR

- 23 Aug 0915 ♂ OW = 943? and ♂ MRWN = 1285
- 24 Aug 1430-1500 Saw 837, 1081, 1430, 1433. 1433 was checking out the hole I plugged up (now open)
- 29 Aug Saw 1430 as I cruised by.
- 31 Aug " I checked the F-troop hole - empty - had shit & feathers in the bottom.
- 1530 - 1600 Census: ♂ 1081, NOBA ♂ (hey, is the fieldlist wrong or is ♂ 943 a H? How could that be? - who is he?)
- 10 Sept 1615 Climbed 87 nest holes. 87a in good shape w chips. 87b couldn't reach all the way, but it didn't strike me as being ready.
- \* Update Maria has seen NOBA ♀♀ here twice, but I'm not ready to give up on the ♀♀ 1040 & 1042 (though the conspicuous absence of many of the group members lately makes me wonder) ♂ 943 was in the field list as a helper. He has been changed to a breeder.
- \* 13 Sept 1245-1300 Saw ♂ 943, ♂ 1081. Nancy's pretty sure she saw a banded ♀.
- 21 Sept 0930-0945 Saw: 1042, 1081, 1284, 1079, 1433.
- 22 Sept 1000 Saw 1081, J 1430 (which I think is Female)
- 26 Sept 0723-0733 Watched 87a nest hole. At 0729 a Flicker visited the 2° entrance. Within seconds, an ACW chased it away. The ACW looked in, then flew away.
- 0910 Saw ♂ 837 (OWW)
- 30 Sept 0900 Saw ♀ 1042 & (♀) J 1430
- 3 Oct 1130 Bird at hole - climbed - empty



$$\begin{array}{r} 6350 \\ 93 \\ \hline 6445 \end{array}$$

M. FormicivorusCVGRHNHR

6 Oct 0900 Saw ♀ 1430, also repeated chases of a NOBA bird. Saw 1081

9 Oct 1600 Saw 867.

10 Oct 1015 Saw 1081, 837, 1430. There was also a NOBA ♀, but she was mildly chased.

11 Oct 1530-1645 Watch. No real action til 1600. Saw 837, 1081, 1042, 1284, 1285, 1079, ♀ 1433, ♂ 1430.

20 Oct 1430 Thought I saw bird in hole. Climbed - empty.

\* Group Update \* ♀ 1430, ♂ 1433

1040 last seen 870611, not seen 870715, dis 870701 ± 2 w

11 Dec 1600 Acorn Count: 1 way count from W = 2000,  
2 way count 4350

Rain gran : 95

tot 6445

→  
too high





1987 M. Stanback

M. Formicivorus

Murf

HNHRR

7 Jan 1415 Acorn Count: Bison Ivy tree 86b = 44  
lean log tree 86a = 40  
Total = 84

Actual total may be less as most of the "acorns" seen were broken open shells w unk contents.  
Important note! Upon arrival an ACW flew from Murf to CV1. A little later a bird from Murf flew to Blm 3! I suspect Murf has gone extinct, CV1 has taken over, and the CV1 birds are waffling. Just a theory.

11 Jan 1500 So much for my theory. Saw ♂ 967, and (♂) 1338. No sign of a female.

2 Feb 1200. I think I saw 1089 (saw ♂ w DB, W on left) at CV1 but I also saw another ♂ 967 from Murf at CV1's granary. I also saw 4 birds up on Murf Knoll. There was also some chasing. What's up here? I severed all the poison oak vines at the base of the 86b nest tree. Maybe that will free up some holes.

3 Feb 1530 Saw 1338 and a couple other birds. Didn't seem to be hanging out at CV1

25 Feb 0930 Saw ♀ YBK'BL who is this

(♂ 967) involved in a chase. These guys are hanging out in the big valley oak at the top of the knoll. Lotsa starlings (+ bluebirds) here. (♂ 966) 967 was also at CV1, sitting peaceably w CV1 ♂ and an NOID ♀ who followed 967 back to Murf.



7 LB 4  
LB

~~1986~~  
1987

M. Stanback

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M. Formicivorus

Murf

HVHR

(25 Feb) Katy saw "1338", 967, and 2 other ♂♂.  
967 hit 1338 alot, very ugly - both flew off  
towards Gaze. Didn't see ♀. So what's up.  
My theory: ♀ is gone (she had a broken bill), a covus  
are gone so Dad's throwing ju. out.

(Walter tells me that there's been a ♂ turnover here)

25 Mar 1030 Saw 4 birds ♂ ♂ 967? 1338?

♂ WOM (967)

♂ LB Y (966) ?

♀ KLBK 965 ?

3 April 0800 - 0900 Power struggle at Murf. WIERD

1144 PHF  $\frac{Y/m}{K-LB/KLB} = \text{not } 965$ , and she was not 965 on 25 Mar either

$\frac{Y \& W(N)}{DB-R/LB} =$

♀ DB-R/LB (good look) =

967 was there (as was 1338)

lotsa NOBA ♀♀

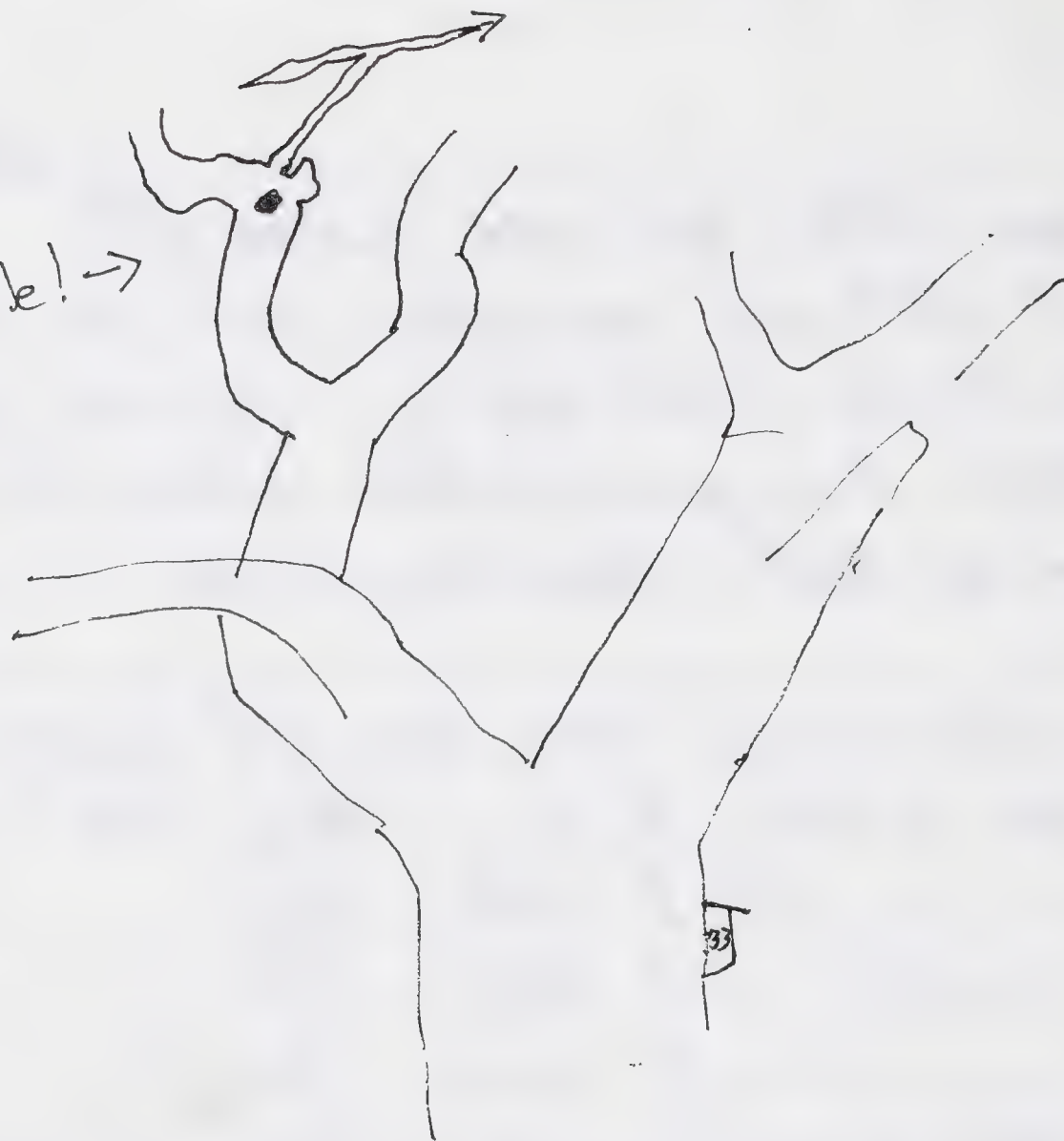
\* Now, on top of the hill (that I thought was Murf territory, there is a ♂  $\frac{YY}{Y}$  sitting peacefully with a NOBA ♂ - what's up?

5 April 1430 All quiet - guess the p.s. is over. Wandering on the top of the knoll, I spy a ♂, who then goes toward cvette. Meanwhile, Cindy saw ♂ ~~1338~~ 1338 look in a hole! I checked the hole - it's legit. In tree w bbbox 233 in the N half of the tree. Faces WSW. See picture on back.



view From W

hole! →



33

00

00

1987 M. Stanback

3

M. Formicivorus

MURF

HNHR

12 April 0800 Stopped by here to see 7 birds. Sorta chasing.

16 April 0740 Lots birds flycatching in Murf - CVI - Gaz II area.

♂ DB-R/LB 1285 (CVGR)  
M RWN

W-R/M 967 (Murf)

♂ OKO 967 (Murf)

♂ R/M 1338 Murf

♀ DGY

♂ MGWN 1338 Murf  
O

♀ KWKW

1130 continuing FCKI 1500 by  
the trail Fuck you ga

Unbanded ♀ at hole. Also a chase

here. I think Murf + CV Knoll might  
be 2 separate groups. Rapidographs are  
worthless pieces of shit. Starling at  
86 a hole. Cyndy saw NOBA ♂

17 April ambush starling at 86 hole.

18 April 0430 ACW's were roosting in 86 a tree.

14 May 1645 Bird at 86 a hole. Sat outside a long time, then  
went in. Stuck head out.

15 May 1530 Checked hole. Empty, but nice shape. Bees!

18 May Saw bird go to hole @ 0830. Climbed 1030 - empty

22 May 1445 Bird in hole. Climbed. Empty. Bees must be destroyed.

27 May 1545 " " "

So, it seems  
CVGR + Murf  
birds were  
peacefully sharing  
a non defensible  
resource in no-  
man's-land.





1987

M. Stanback

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M. FormicivorusMURFHNHR

30 May 1630 Climbed. Empty, but fresh chips in door. Well Bozo, you missed your chance to kill the bees.

15 Aug Live oaks here have a great crop of acorns.

23 Aug 0900 ♂ Y/L? in upper Murf tree (on top of hill) 2 other birds there. One flew toward CV road (way far), making me think Murf may be split in 2 (a CVI version & a Knoll version)

24 Aug 0945 ♂ 967 is at CVI

27 Aug 1645 " w CVI birds

\* Group Update: Maria has seen all 4 Murf birds at Murf (966, 967, 1144, 1338) ♂ 967 continues to have dual status at Murf & CVI.

21 Sept 0700-0800 Watched from various places. No one seen visiting <sup>87</sup>"nest" hole, Cyndy hole. Most activity is in Cyndy tree. They are storing acorns. Ⓢ The birds on top of Murf Knoll are CVette birds. I saw one fly from the CVette tree over to Murf Knoll.

26 Sept 0745-0845 Watched for nestiness from several places. At 0840 a bird went to the 86a hole, and sat at it for @ 2 min, occasionally sticking his head in. This was the only interest in holes that I saw. Pair of starlings here. Boo!

9 Oct 1615 Saw 967 & 1338

17 Dec Acorn Count: 86a nest tree 6100

86b nest tree (many holes still covered w P.O. (now dead) 1400

Total = 7500

Saw 967, 1338, & DB-W/LB





1987

M. Stanback

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M. FormicivorusCV1HNHR7 Jan 1400 Acorn Count: 302

11 Jan 1600 Saw two, maybe 3 birds. ♂ 1089 and a ♀ that refused to show her bands.

2 Feb 1200 I think I saw ♂ 1089 here, but I also definitely saw a 2nd ♂ here ♂ 967 from Murf here in the granary. He flew up to Murf knoll and joined 3 other birds. I followed observed a chase, and then gave up as the birds flew off and the rain began to fall. What's going on here?

11 Feb 0845 Acorn Count: 371

25 Feb 1000 Wierdness. ♂ 967 From Murf was sitting peaceably w 1089 and a ♀ I thought was the CV1 ♀. However, she wouldn't show her bands, and followed 967 back to Murf. 1089 sat quietly alone for several minutes, then a NOID bird landed in the tree. 1089 flew up beside (very close) this bird for about 20 sec. Then hell broke loose. There was a mini-power struggle taking place for about 2 min. Murf birds seemed not to be involved. Then the 3 intruders (one was unbanded? ♀) flew off in the direction of Blm 3 or Raj. One stayed behind (♀) and is in the tp of nearby tree (10 mins) Then she (?) and another bird nearby flew to CV1. I heard Fuss, then things were quiet. I got here and 1089 and (945) are in the tree, And so is a NOID ♂!





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M. Formicivorus

CVI

HNHR

(25 Feb) Katy saw 1089, 945, & 967, with some ugliness tween 967 & 1089

3 April 1000 3 way Acorn Count: 85

1145 both ♂ 967 and ♂ 1089 are here w ♀ 945

12 April 0800 Intruder problems here (spillover from Murf?)

5 May 1600 I was spying for a couple minutes here, and a bird went near the wierd hole over in the sycamore.

10 May 1230 Another suspicious Flush from the sycamore

13 May 1700 Bird at hole in sycamore

14 May 0930 Went up w intention to saw, but its gonna be such a bitch, I'm gonna make sure its a nest first.

18 May 0830 - 0900 (+ some a bit later) Watched for nestiness, saw nothing.

27 May pm watched 'em several times this afternoon; nothing (didn't see any birds here)

1 July 1030 ♂ 967 here. Field list has him as a Murf bird, but I would give him at least dual citizenship.

15 Aug CVI gran (VAOK) has lots of aborted acorns.

24 Aug 0940 - 1000 Saw ♂ 967 From Murf w ♀ and a NOID bird in CVI granary.

27 Aug 1345 ♀ (?) M RON For sure <sup>in granary.</sup> 602, is this the ♀ I've been seeing intermittantly here for the last 2 years?

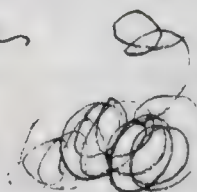
1645-1700 Saw Murf ♂ 967, CVI ♂ <sup>1089</sup> (NK), CVI ♀ 945 (LBW WM). So who's this M RON ♀ seen earlier? Just saw a ♂ w W-K/K, who then moved and I soon after saw WRM of 967 (same bird?)



W M  
O-W W



all



M. FormicivorusCV1HNHR

- 31 Aug 1400 Saw ♀ 945 LB/W-L. Then I saw my old nemesis ♀ RON M. (1170) RON/Y-DB. Perfect view. Then she + two other birds left CV1. Flew together to the windmill. Then one of them flew back towards CV1 (but on the Hastings side of the ditch to chase a scrub jay. What's up?! Then the other 3 followed that bird.
- 10 Sept 1700 Suspicious Flushing from near wierd sycamore hole.  
\* Group Update: ♂ 1089 and ♀ 945 present.  
♀ 945 has allowed her sister 1170 to join her, and it seems ♂ 967 is still attempting duel status at Murf + CV1.
- 13 Sept 1130 - 1230 Nancy P. watched the sycamore hole for activity. None. Just busy gathering acorns. She saw ♂ 1089 and ♀ 945.
- 15 Sept 1700 Saw 5 birds here !?!
- 21 Sept 0810 - 0835 Watched for nestiness. I think they're just into acorns (though maybe mate quarreling - they always seemed to fly off together). There are 4 birds here. I saw ♂ 967 and ♀ 945 (I assume the other 2 are 1089 + 1170).
- 30 Sept 0800 - 0810. No interest in sycamore hole.
- 9 Oct 1630 Saw 1089, and maybe another ♂. Think I saw ♀ 945 at waterhole. Saw J ♀ at water. Wierdness.
- 10 Oct 0800 - 0915 Saw 1089, 945, 1170, and a 4<sup>th</sup> bird.
- 20 Oct 1450 Saw 1089, 945, 967, and a 4<sup>th</sup> bird. Thus 967 is an integral part of the group.





M. FormicivorusCV1HNHR

\* Holy Cow! It seems ♂ 1089 has a brother here with him, ♂ 1090. Now we need to find out how long he's been here, and whether the dual status ~~967~~<sup>967</sup> is really 1090. Remember though, I think I've seen "~~967~~<sup>967</sup>" fly from Murf to CV1.

\* \* Group Update \* 1089, 945, 1170, and 1090. Don't know how long 1090 has been here - there's a chance that "967 at CV1" is 1090.

14 Dec Acorn Count : 4500





1987 M. Stanback

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M. Formicivorus

Waterhole

HNHR

10 Sept 1700 ♀  $\frac{BYNM}{OKW} = 1255$  From Rajn or 1391 From OKCO

11 Sept 1540 - 1630 Watched windmill from blind. Activity comes in bursts - I saw one: First come juncos, then stellars jays, then scrub jays, then flickers, then ACW's.  
Saw: ♀  $\overline{M/DB-}$ ,  $\overline{Y-DB/GWN}$ , ♂  $\overline{of}$   
MWR, NOBA ♂

21 Sept 0730 - 0930 I'm hearing lotsa activity here. I saw a bird fly from the windmill to cVette





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M. Formicivorus

Mill

HNHR

22 Aug 0945 ♀ 1261 and NOBA ♂ near CV2. Visited new hole.

26 Aug 1055-1125 Saw ♀ 1261 and at least 1 NOBA ♂. Both stayed mostly in the spindly tree, but also visited the large tree by box 240. Both birds repeatedly visited a hole under construction in a small limb in the main tree.

\* Group Update: This ♀ 1261 moved her around<sup>87</sup> 0822 in response to a ps. at Blm 3 where she was a helper. Her older sister<sup>(1170)</sup> moved in with an even older sister (945) at CV1. The 2 NOBA ♂♂ here are 5270 and 5271.

13 Sept 1130 As I walked by, a ♂ was sticking his head out of a hole (near the one they were working on) in a tiny limb.

30 Sept 0800 Saw ♀ 1261 (& maybe another banded bird M/

18 Dec 1100 Saw ♀ 1261 (all bands) and a ♂ (NOBA?). He was eating buds - things pretty tight here - 200 acorns.



0

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1

M. Formicivorus

CV 2

HNHR

7 Jan 1330 Acorn Count: 2008

(not very accurate)

after counting I noticed an ACW in 86 nest hole

27 Jan 0600 Ambush! Last night I saw 4 birds (seem to be only 4 in the group) go into nest hole. Couldn't resist. Did a pole ambush this am, about 0530. I wobbled an one Flushed. We heard it (I think) later after it got light, so I don't think it was eaten by owls. Anyway, the hole had 3 birds - one NOBA ♂ and the two we caught last time (♂ 1372, ♂ 1373) Katie reports NOBA ♀♀s (at least one) at this group. So who is this ♂? And where were the ♀♀s?

3 Feb 1700 Saw NOBA ♀, a banded ♀ (m?), a male w DB-LB on lft(?) , ♂  $\bar{0}$ . Pretty Fucked up, huh. OK, here's my guess as to this group. A banded ♀ is mom (570). Daughter from the missed 86 nest is the NOBA ♀. The 3 <sup>new</sup> ~~NOBA~~ ♂♂s are either Breeding Males or Sons. My guess is breeders → since there is no obvious Dad. But see Sue's nest watch notes!

11 Feb 1000 Acorn Count: 2761

24 Mar Saw NOBA ♀ 5199

2 April no mate guarding (reports Cindy)

3 April 1045 2+ way acorn count: ~ 1800

5 April 1300 Short, unsuccessful mate guarding watch. Lotsa starlings. Built a wood & bark blind at the base of the fallen tree





1987

M. Stanback

2

M. formicivorus

CV2

HVHR

8 April 1300 Saw a bird (♀?) w DG-Y/DG at granary eating a corn. Very bold. Was chased off vigorously by CV2 bird. No, was on Left.

9 April 1600 Climbed 85 nest hole. Starling nest start! I'll do an ambush 2 nite. Cyndy reports ♂ birds that don't match the field list. New breeders? Is the NOBA ♀ now a breeder for sure? Why didn't Katy do a decent census here in winter <sup>85</sup>86? Set ambush, but no one came. (Next nite too - dud)

12 April 0630 - 0730. Spying, hole checking etc. No luck. The canyon is full of starlings. One nest in the nice upright bole. There is one not so great hole in the granary visible as you walk in from Dark Hw.

16 April 0900 And with some effort I find the nest. High in the tree on the underside of a horizontal branch. Its above a dead end hole, so it's a weird cut out. A bird went to it while watching and a bird was in it shortly later. Empty

18 April 1600 Empty.

20 April 1800 Empty. Checked 86 hole - starling start removed.

21 April 1700 Empty! Again!

22 April 1530 ditto

24 April 1430 ditto, checked the 85 b holes. I was latrine/other I couldn't see in). Watched from hole blind for awhile. Saw nothing.

26 April 1300 Empty, but I watched & birds seemed to be going to that part of the tree.





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3

M. Formicivorus

CV2

H/NHR

- 29 April 1030 Hole still empty. I think they're elsewhere.
- 5 May 1430 - 1530 Spied on the group. They were hanging out in the tree uphill from the "holey" tree and occasionally going to the granary. No one landed in the holey tree. I scouted for holes in various trees w/o luck. I climbed my 'new' hole in the holey tree - just had some new mouse crud. The ♀ a hole had what looked like a starling start - which I threw out.
- 6 May 1330 - 1430 Still no luck!
- 11 May 0600 - 0630 Spying. They are garricking & drumming. What is going on? I find it hard to believe that they're just getting started. Western Tanager.
- 14 May Spent an hour here this am, w/o luck.
- 16 May Boo
- 19 May Boo
- 21 May Boo - I even checked the Dark Holl - OKCO no man's land
- 27 May 1445 - 1525 Boo. (watching later saw bird go up canyon)
- 15 June 1100 Acorn Count : 1470
- 1 July 0930 - Census : NOBA ♀ <sup>5199</sup> (NOBA ♂ ?) ♂ 0 <sup>(1375)</sup>
- These birds are ranging into the live oaks by the windmill. Lots of sitting still, and no sign of juvs! ♂ 1372. He seems to have lost bands on his right leg. Is there a Finch effect going on here or what?
- 9 July 1450 - 1510 Hid & listened for kids, but no one showed.
- 15 Aug Still has plenty of acorns stored. Found nest!



45  
46  
45.5  
44

43

45  
43.5  
46

37

42  
42.5

1987

M. Stanback

4

M. FormicivorusCV2HNHR

(15 Aug) In 856 hole (the lower of the 2) Returned to <sup>(1515)</sup>  
weigh kids. Clutch = 4 RL = 4.8 LL = 5.9 B = 3.25

16 Aug 1530 RL = ~~4.8~~ 7.9 LL = 9.4 Bk = 4.4 + egg

17 Aug 1530 10.8 12.6 6.18 3.2

Nest watches 5199 <sup>MN</sup> 1373 <sup>NB0</sup> 1372 <sup>GOG</sup> 1375 ♂

16 Aug Tim 25:30 21:30 34:30 8:15 6

Visits 9 2 4 3 1

17 Aug Tim 32 30:30 23:20 8:30 19

Visits 21 10 5 4 4

18 Aug 1525 11.3 ~~17.3~~ 6.5 gone

19 Aug 1145 <sup>B.5</sup> 3.5 19 H 6.0

18 Aug T 64:30 22:30 50:30 30:30  
V 6 3 5 3

22 Aug 0815-0930 Power struggle! No interest in nest  
♀ <sup>DB:O/V.K</sup> <sub>M/R.K</sub> sitting beside MN ♂. She sits  
some in the nest tree, but gets regularly  
chased by the NOBA ♀ (who is, I think,  
the same ♀?). The NOBA ♀ gets along  
very well with the banded ♂♂, however  
she is doing some drumming. The NOBA  
♀ grappled to the ground with another bird.  
Only these 2 ♀♀ were seen in the ~~the~~  
entire time. The ♂♂ are also involved in  
chasing. There are extra birds around, but  
only in the periphery. The banded ♀ was  
not seen as much as time went on.

⊗ New Group between CV2, OKCO, & windmill. Eating  
acorns & checking holes. NOBA ♂, ♀ <sup>WN</sup> <sub>OW/W</sub>. Flew  
away toward Mumme. This is 1261 from B/m 3!

1261 (now at)  
M.H.





1987 M. Stanback

5

M. FormicivorusCV2HNHR

26 Aug 1530 NOBA ♀ sitting w ♂ on Dark side of OKCO knoll. (I've seen CV2 birds here before) So I decided to check the nest (expecting empty or dead), but no live kids! Will weigh tomorrow. What's doin'!?

27 Aug 1410 31.5g, TC = 13.1, TN = 9. I then set an ambush for the NOBA ♀ and waited from 1430 - 1630, but no one came. I removed ambusher.

29 Aug 1010 33.5 14.1 9.7 Tried ambusher again. In 2 hrs no one fed, though a ♂ came near once. I gave the baby about 6 pieces of dog food and 2 grasshoppers (some after weighing, some on removing ambusher). Oh yes, there was still a wee bit of drumming.

	Time	Wt	Chr	1 <sup>st</sup>	1 <sup>st</sup>	TC	TN	BW	TS	T
31 Aug	1415	46.75		3.4		15.2	10.45	6.9	1.3	3.2

7 Sept	1015	65.2	52	19.3	25.6	17.6	12.7	6.95	11.1	21.1 (3)
--------	------	------	----	------	------	------	------	------	------	----------

9 Sept	1610	74.5	64	22	37.3	18.6	13.4	7.1	15	28.5
--------	------	------	----	----	------	------	------	-----	----	------

10 Sept 1700 Saw ♂ 1375 at windmill (w lots other birds)

11 Sept	1505	74.5	73	25.8	48	19.1	13.7		15.7	35
---------	------	------	----	------	----	------	------	--	------	----

As I put him back in he waked at me repeatedly.

\* Group Update: I finally removed ♀ 570 from the Field list (last seen 870203), 1<sup>st</sup> not seen 870324.

♂♂ 1372, 1373, 1375 still of unk breeding status, though they all fed on day 2 of the nest. I'm assuming ♀ 5199 has been there all summer (ie that the power struggle that took place during the nesting cycle and brought in ♀♀ did not cause 5199 (or result from her leaving) to leave.

13 Sept	1205	73.5	83	24.4	57.5	19.7	14.1		17.5	40
---------	------	------	----	------	------	------	------	--	------	----





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M. Formicivorus

	<u>CV2</u>	wt	chor	<sup>1st</sup> <del>1st</del>	<sup>1st</sup> <del>1st</del>	TC	TN	<u>HNHR</u>
15 Sept	1710	74.5	93	24	68	20.8	14.6	47.3

Waka'd while weighed. This brought adult in. (Back when I bled him, hematocrit was  $37 + \frac{30}{84} = 35.7$ )

6 Oct Lotsa acorns stored.

\* Group Update \* 570 last seen 870203, baby is 1439

17 Dec	Acorn Count:	From W	2700	+	(1 way	}	11000
		E	5300				
		est 3rd view	3000				

That's alot: maybe some were left from last year.





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M. Formicivorus

OK Coral

H.N.H.R

7 Jan 1300 Acorn Count: Hastings tree : 361  
Nest (Bee) tree : 838  
Total : 1199

3 Feb ♂  $\frac{W}{Y-LG/M}$  , ♀  $\frac{LB?}{OM}$  ← this is rite! Who is she?  
1034

11 Feb 1030 : Acorn Count: Hastings tree : 700  
Bee tree : 1433  
total 2133

25 Feb 1100 Census.

♂  $\overline{RWM}$  (886)

♂  $\overline{W/O-W}$  ?

♀  $\overline{Y-O/T}$  ?

♀  $\overline{DB-W(N)/}$  either ♀ 1160 or J 1240

♀  $\overline{M M_r}$  (695)

Katy has seen ♀ 1160, maybe that's

24 Mar 1130 Saw ♀ 695

25 Mar 1445 - 1530 Census F ~~XXXX~~ (on arrival) set up

blind, waited, nothing. Heard birds in side tree. Left  
blind and checked. 2 ♀♀, 1 ♂. ♀ 1160, ♀ 695

The ♂ seemed to be  $\frac{W/DP-Y}{LL/M}$ . I'll guess 1034.

2 April am 0730 - 0800. No mate guarding or hole interest

5 April Cyndy reports no mate guarding 1230 - 1345.

Acorn Count: Bee tree 950

Hast tree 200

total (1150)

9 April Cyndy reports interest in 86 hole. I dived this afternoon.



$$\begin{array}{r}
 109 \\
 3.1 \overline{) 340} \\
 \underline{31} \phantom{0} \\
 300 \\
 \underline{279} \\
 21
 \end{array}$$

n

02

1987 M. Stanback

2

M. Formicivorus

OKCO

HVHR

(9 April) Hole was in fair shape, but no eggs. Bees perceptive.

12 April 0630-0730 Cindy watch. No interest in hole.

14 April 0900 Climbed. Empty but nice shape (Katy rep. birds at hole)

16 April 0630-0730 Cindy reports no interest in hole.

17 April 0830 Climb. Empty. Too risky a climb to do for nothing.

There's incredible amounts of live ~~at~~ pollen today here

21 April 1630-1700. Watched for interest in hole. None. No mate guarding either.

22 April 1500-1515 watched. Nothing.

23 April 1630 Found nest. Shit. Should have known. It's in the big snaggy sycamore. High & far out. Shit.

24 April 1100 bird in hole. put up rope. Chickened out.

25 April 1600 In an incredible show of daring, Walt climbs the hole, cuts the door, and Finds 5 eggs - incubated for several days.

6 May 1700 Yes, I climbed the hole. Babies just big enuf for bands  
Y = 19.2 BWN = 22.6 B = 22.8 O = 16.3 r = 5.8

11 May	1515	46.5 = Y	53	49.5	43.6	13.9
		13.5	13.5	13.6	12.6	
		9.8	10.2	10.2	9.4	

23 May	1000	Bird	Wt	Chor	l <sub>u</sub>	l <sub>s</sub>	TC	TN	G	BW	T	TS	#
--------	------	------	----	------	----------------	----------------	----	----	---	----	---	----	---

45, 46, 45.5, 44	1	B	84.3	79	53.3	29	20.8	14.75	11.4	7.6	39.2	22	1390
------------------	---	---	------	----	------	----	------	-------	------	-----	------	----	------

43	2	N	89.8	89	52.7	23.7	20.1	14.25	11.25	7.6	33.5	17.1	1391
----	---	---	------	----	------	------	------	-------	-------	-----	------	------	------

45, 43.5, 46	3	O	80.9	69	46.1	28.9	19.3	13.5	10.3	7.3	30.6	15.7	1392
--------------	---	---	------	----	------	------	------	------	------	-----	------	------	------

37	4	r	42.1	-	11.1	9.4	15.15	10.8	-	6.9	9.2	5.3	1393
----	---	---	------	---	------	-----	-------	------	---	-----	-----	-----	------

42, 42.5	5	Y	81.3	80.5	55.5	25	20.3	14.5	10.2	7.25	36.3	20.1	1394
----------	---	---	------	------	------	----	------	------	------	------	------	------	------

hematocrit blood



$$\begin{array}{r} 132 \\ 3 \overline{) 396} \end{array}$$

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M. Stanback

3

M. Formicivorus

OKCO

HNR

5 June 0700 wt chor 1°s 1° TC TN BW TS T  
66 ~~88~~ 88 22.5 64.3 18.25 13.4 7.4 15.8 44.6  
this is the runt - his bill seemed weird

11 June Cyndy reports door is loose. Baby still in hole!

15 June 1030 Acorn Count: Main gran 424 + 2 (20) = 426

16 June roost watch - 5 birds into nest tween 1935 + 1946

5 July 1415-1545: Saw 139C sitting for awhile w adult ♂

22 Aug 0945 J  $\frac{BO \dot{N}/W}{n} = \checkmark$   $\sigma = \overline{OW}$

7 Sept 0745-0900 Saw 849, 886, 695, 1394, and several intrusions by a NOBA ♀.

10 Sept 1650 I think I saw J 1391 (Male?) at the windmill  
Bands:  $\frac{NM}{OKW}$  There were @ 8 birds there -  
from several groups. Set a blind.

\* Group Update \* may have seen 1391 870910, 871103  
 ♀ 1390, ♂ 1391, ♀ 1392, ♂ 1394.

1393 last seen 870627, not seen 870703, dis 870630  $\pm$  3D

18 Dec 0850 Acorn Count: cold, so the scope kept blurring.  $\therefore$  not too accurate.  
Bee & nest tree: 2300  
other tree: 1400



ay-b      O/Y-O  
M O

M. Stanback

M. Formicivorus

## Dark Hollow

H N H R

7 Jan 1215 5 birds Flushed From tree

Acorn Count : Hastings tree : 788  
CV tree : 204 } 992  
Total : 992

2 Feb 1100 Saw 4 birds here, actually in the trees to the left of the snag up on the hill. I could identify only 584 and 1307.

22 Feb 1115 NOBA ♀ lands in tree. Chased by banded ♀. NOBA  
♀ returns to CV2

Acorn Count: Hastings tree : 867  
 cv tree 303 } 1170  
 total 1170

24 Mar 1100 Saw 584.

25 Mar 1430. Thought I saw ♂ MvM. Let's hope it was 584

31 Mar 1000. 1062 seen at L HAY Power struggle.

5 April 1330. Acorn Count:   
 Hast tree 250   
 CV tree 219   
 total 469

16 April 1030 Checked 86 hole & the one below it. 86 hole nice shape, some (old?) chips. Hole below w mouse acorn remains.

22 April 1400 Bird goes into <sup>86</sup>hole. Climb. Empty

24 April 1530 Empty.

29 April 1000 4 eggs. #1-4. Not warm, not cold.

2 May 1430 Boo, still 4 eggs. 1 2 3 4

 $27.6 \times 19.1$      $26.5 \times 20$      $25.6 \times 19$      $27.1 \times 20$ 

8 May 1700 Loretta reports that they were still incubating all through her watch (1400 - 1700)



02

1987

M. Stanback

2

M. formicivorusDark HollowH/NHR

10 May 1300 Egg #1 did not hatch. I removed it.

RL = 11.0 LL = 6.4 RW = 4.4

RL &amp; LL were pale. RW looked freshly hatched (not declining)

11 May 1700 RL = 15 LL = 8.6 RW = 7.3

12 May 1645 18.1 11.7 9.6

13 May 1630 22.9 16.1 12.3

14 May 1700 26 19.5 17.4

TC = 11

15 May 1700 RL = K = 30.9 24.4 19.2

11.9 9.3 9

8

16 May 1630 35.3 27.7 25.1

12.8 10.5 10

8.4

17 May 1630 40.2 30.6 27.5

13.8 11.5 11

9.2 7.6

K

LL

RW

18 May 1630 43.8 37.6 31.9

14.6 12.6 11.9

9.7 8.2 7.7

19 May 1715 46.8 38.4 35

15.3 13.6 12.7

10.1 9.1 8.1

6.8 6.85

(K)

(B)

(Y)

20 May 1615 51.7 42.8 37.3

16 14.2 13.1

10.4 9.35 8.7

BW 6.8 6.6 6.15

10 3.2

tail 1.1



Grate  
18 May 0800 Bird to hole in SG n/ftt

①

1987

M. Stanback

M. Formicivorus

Dark Hollow Nest Record

HNHR

29 April 1000 4 eggs

10 May 1300 3 babies (hatched 9 May, 10 May) + 1 egg (Egg removed)

3 babies banded & bled

3 June 1530 Gopher snake in hole; ate 2 babies, killed the 3<sup>rd</sup>.











1987

M. Stanback

4

M. ~~formicivorus~~ FormicivorusDark HollowH N H R

(3 June) I got the snake out. Anyway, snake measurements: Head to Vent: 105.6 cm, Total length: 130.8

L.B / ue / 902-43179 TC = 19.9 TN = 13.9

Brown-Orange / Orange - L. Blue 1° sh 23.3 1° = 51.4

TS = 16.2 Tail = 35.3 BW = 7.5

B. Pink - L. Pink / Black - B. Pink TC = 18.9 TN = 12.8

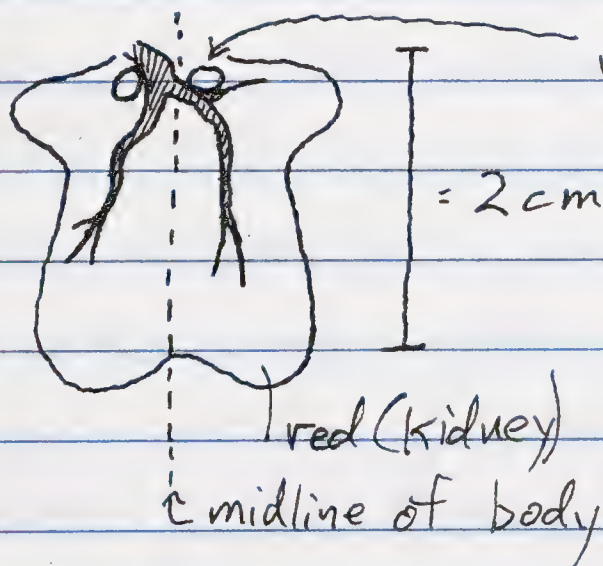
Yellow / 902-43180 1° sh = 15.8 1° = 44.2

TS = 10 T = 26 BW = 6.5

4 June 0830 Climbed nest. Yes, a dead baby (bugs all in it)

902-43181: wt 74, chor 94, 1°s 24.9, 1° 66.3 TC 21.85

TN = 15.2 BW = 7 TS = 15.3 T = 44.4



white light colored "globbs" (2 seen)

Ventral view of kidneys  
after moving stomach &  
intestines away

Are the 2 above "globbs" early testes?

6 June

Dissected other 2 kids  $\frac{PP/KP}{V/180}$  had sorta a <sup>(one)</sup> glob in the middle (fuzzy edges - not distinct). I started tearing at it and it turned into 2 globbs - larger & closer together than ~~that~~ those seen in 181. 179 was like 181. Can I assume that 179 & 181 are ♂ and 180 is ♀?

19 June

1420 Acorn Count: 0





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5

M. Formicivorus

Dark Hollow

HNHR

24 Aug 0910 - 0950 Watched, but only saw ♂ 584.

26 Aug am Saw 584, 1307, unsure of ♀ 1 saw. They spent time near the Blm 3 wierdness, & near the windmill wierdness.

7 Sept 0925 - 0945 Saw ♂ 584 and a ♀ w MT (I think) is this ♀ 1035?

9 Sept 1630 The N tree is covered in acorns, the S tree has almost as many, and the near live (?) oak has lots too. Keep eye out for fall nest!!

10 Sept 1715 Checked 87 nest hole and the other too - nothing. Neither hole had fresh chips. Still spending lots of time over the gulch (toward Blm 3) Not surprising considering "Windmill". Before climbing I saw ♂ 1307 at the windmill for water

13 Sept 1125 - 1150 Watched dark hol. From a distance - a bird worked on a new hole in the limb that I usually stand on when I'm at the old nest. No visits to the 87 hole. I walked by and a bird flushed from a high hole in a small snag in the 87 tree directly over the wood pile on the SE side of the tree.

15 Sept 1730 - 1800 Watch for nestiness. Nothing, but when I walk to the tree, get flushing from same place.

19 Sept 1700 Set string, climb, peep hole. Empty. Oh yes, this am I watch one hr. Saw a bird go to the hole. Also saw ♀ 1035.





1987 M. Stanback

6

M. formicivorus

Dark Hollow

H NHR

22 Sept 0925 - 0935 Spied on suspect holes. Bird went to, but not into, the new hole at 0935.

26 Sept 1600 Climbed, no eggs.

30 Sept 0740 Watch hole - within 3 min a bird visited. Didn't go in.

3 Oct 1100 Climbed the hole - empty.

\* Group Update \* 1307 seen at Blm 1 871106

Also ♂ 1063 (disap From PKITW) seen at Blm 1 871106 !

17 Dec 1615 Acorn Count:

~~Hastings tree (2 way: W, S) = 750~~

18 Dec 1000 Recount: Hastings tree = 2000 } total = 2500  
N tree = 500 (saw ♂ 584)

One live oak still has quite a few acorns hanging on it.





1987

M. Stanback

M. FormicivorusRon MummeHNHR

20 May 0730 Cut out the nest hole Cyndy found. 4 kids

K 53 6 16.5 11 6.9 3.7

W 54.5 7.7 16.5 12.1 7.2 <sup>tuft</sup> 0 ← weird tail all skin

G 56.5 7.8 16.5 11.3 6.8 5.3

- M 42.1 2.4 15.9 11.1 - 6.8 2.5

wt 1°u 1°s TC TN G BW T TS chor

30 May 1530(K) 64.9 [37] 17.6 19 13.4 7.5 24.5 14 60

W 64 43.6 15.6 19.9 14 7.5 32 18.5 70

G 60.9 41 15.7 19.1 13.2 7.05 34 18 68

M Dead 14 10.8 23 14.5

Yuck, Mauve was very dead + rotting - w mites all over + smelly etc. The other babies were hence very filthy (+ their 1° were very worn) and I didn't think bleeding them would be a great idea.

Black = 902-43171 / Yellow - L Green  
Black-Yellow / Black

Green = L Green / 902 - 43172  
L Pink - L Blue / L. Blue - D. Blue

white = Yellow - Orange / White  
B. Pink - Orange / 902 - 43173

moral(?) if it's an easy climb, climb it every other day!  
(you could have documented this broad reduction)

1 June 0700(K) 65.1 68 43 20.4 19.1 13.5 7.3 29 18

G 61.5 74 48.4 17.2 19.8 13.5 7.5 39 20

W 65.7 77 50.7 17.7 20.05 14.1 7.6 37.3 20.5

19 June 0940-1000 Watch, nothing. Took blind to Gaze, hole empty.

July CBH 340, ht 425, CNH 95, ang 50 F.h., dep 32, slop 10, asp 170, dir 50





1987

M. Stanback

1

M. FormicivorusHorsetailHNHR

31 May 1230 Riding by I hear a woodpecker. And then again. Going up to the HORS granary, an ACW Flushes & Flies uphill (not towards GATE) No acorns.

2 June 1045 Stopped by - saw no one

\*Update\* The bird here is 1317, the bird that's been seen at Pipe, Pump, & Horse, all in one week (He had ♀ company at Pipe & Pump).

27 Aug 1010 - 1040 Heard birds here while watching 1800. Came down... saw at least 2 (NOBA ♀ and NOID ♂) And yes, I slenthed out their nest. In a dead branch in the granary tree (which has many acorns)

28 Aug 1630 Cut open hole - very rotten wood - paper thin - the door splits - hole is empty but has fresh chips. I balance the door in place w 2 nails & DAP.

30 Aug 1100 Duct taped the door - I hope it works....

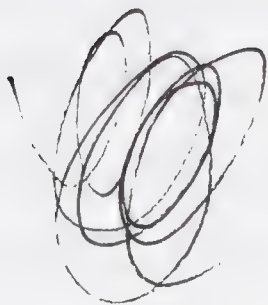
9 Sept 0740 Saw NOBA ♂ here. He momentarily chased an intruder who Flew back towards 1800.

\*Group Update ♂ 5272 and ♀ 5273

17 Sept 1030 Stared at hole for 5 min. Nothing

30 Sept 1030 Helloed hole - nothing





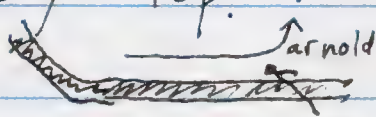
00

1987

M. Stanback

1

M. FormicivorusGate (W Gate)H N H R

- 7 Jan 1600 Acorn Count: From 1 position across the road I counted 417 acorns. Most were stored in the section at the very top. I'll estimate 1000 acorns in all.  (800)  
Used a scope. Just one syc → ~~0~~ me sit
- 20 Feb 1615 Acorn Count: From 2 positions I counted 220 acorns. I'll estimate total to be 300. I think I overshot on 7 Jan - call it 800 then
- 31 Mar 1100 1097 caught at LHay Power Struggle! She's a breeder - what's she doing there! (a hit by car)
- 4 April 1345 Acorn Count: 0 NO MORE ACORNS!
- 6 April am. Installed dog Food Feeder at W Gate
- 10 April 1000 Power Struggle. No scope, so sex undetermined (probably ♂) Dog Food level has not gone down noticeably, and no one was interested in it during the power struggle. Came by sev hrs later - nothing hap.
- 12 April 0930 Driving by I see a vicious chase and drop Katy off to investigate. [I moved dog food sometime] 16 April
- 17 Apr 0800 Fucking worthless rapidographs. Power struggle. 10-15 birds involved. Still active at 0900. Quiet in afternoon
- 18 April 0600 No sign of power struggle.
- 16 May 0745 - 0815 I think they may be mate guarding. 3 birds are together lots. Twice a 4th has tried to join but has been chased off. Twice birds visited the NW facing hole that's in that NW snag. Yuk. But also twice birds visited an area on the back of the tree. Yes, several holes. But a starling is checking them out!





1987 M. Stanback

2

M. Formicivorus

Gate

HVHR

- 19 May 0800 Bird to hole in live oak in sq. nail flat.
- 26 May as helloed ♂ hole. Nothing
- 28 May 1400 "
- 29 May 0745 Watched hole a bit, helloed. Nothing. Heard garricks checked out main grove + something's up, though I'm not sure what. Garricks, chases, mate guarding, at least 5 birds, (one being unbanded ♀) Is it all just very intense mate guarding?
- 22 Aug 1500 Watched here awhile - saw NOBA ♀, maybe a NOBA ♂, 1313, and 1312. They are using both Gate and W Gate, though mostly the latter. They disappear into Sq. Nail Flt. Watched SMF awhile. Nada.
- 1530 ⓧ There's a bunch of birds hanging out S of the lane and E of Martin road. They range up the hill quite a ways. Are they spill-over from the R<sup>1</sup> weirdness. Some are chasing w/ enthusiastically.
- ⓧ There are at least 3 birds in a "territory" between Pipe & Gate.
- 24 Aug 1335 - 1415 Census: 1108, 1106, 1097. During this time I twice saw birds at the 86 Gate hole.
- 6 Sept People report lotsa activity here.
- 9 Sept 0815 Well, well. Confusion certainly reigns... Gate and W Gate have split (and there ~~may be~~ <sup>is</sup> a 3<sup>rd</sup> group down by the telepole in front of the A frame) Gate consists of ≥ 1 NOBA ♂, ≥ 1 NOBA ♀. They are nesting





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M. Formicivorus

Gate

HNHR

(9 Sept) in the Gate 86 nest hole. W Gate consists of  $\geq 2$  NOBA ♀♀, ♂ 1106 ("Gate"), ♂ 1313 ("Gate"). AFRM (A-frame group) consists of unk birds. W Gate birds and AFRM birds are drumming (as are Gate birds)

\* Group Update \*: 870906 Gate + W. Gate split. Gate consists of ~~1813~~ 1106 ♂♂ 5277 + 5278, ♀♀ 5279 and 5280; all moved here 870906 ±

13 Sept 1330-1400 Saw 1 NOBA ♂ and 1 ~~NOBA~~<sup>NOID</sup> ♀. The ♂ sat at the hole for a while and preened. No major nestiness.

22 Sept Hello'd hole twice today - nothing.

28 Sept 1000 About 4 or so birds at the gate itself  
1100 Activity at the 86 hole. Question is: are Gate & W. Gate still different? Both groups are using Sq. Mill Flat and the Arnold Side. Yes, they're different. I saw a NOBA ♂ here.

1615 Climbed hole. Empty. Door was loose. Gate birds are hanging out by mailboxes and up PD Hill.

12 Oct Connie reports @ 5 birds here, some weirdness (or is that all at WGAT)

13 Oct 1000 Bird at hole. What's up?

7 Nov climb for ambush, but hole (hi one), but it was so fragile it couldn't handle an ambusher. I roost watched, they went in.

13 Dec Acorn Count: 200 in gate syc





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M. Formicivorus

West Gate

#NHR

9 Sept 0830 That's right. There's been a split - Gate and WGate are again two (see 9 Sept Gate notes) There is also a third group (with which WGate is interacting) down by the telepole in front of the A-frame (hereafter known as AFRM). West gate has  $\geq 2$  NOBA ♀, "Gate" ♂♂ 1106 and 1313. At one point WGate birds visited a broken snag hole with a string low on the down valley side of the sycamore.

\*Group Update\* Gate & W. Gate Split 870906  
W. Gate consists of:

1097 and 1315 disap before switch (last seen 870824 and 870804 respectively)

13 Sept 1330 The W. Gate ♀ 1108 

LG	DB
LB	M

 is hanging out at A-frame w a NOBA ♂ (she has very brown plumage). WGate ♂♂ 1312 & 1313 seen at W Gate w 2 NOBA ♀♀.

28 Sept 1000 - 1020 Watched. Saw ♂♂ 1106, 1312, 1313, and at least 1 NOBA ♀. 2 birds (NOID) were seen flying from WGate to Gate. At one point, there was also some minor chasing. Who bloody knows.  
1030 - 1050 At Maggies (aka AFRM) to see who the ♀ is. Saw a ♀, but didn't get ID.  
Are Gate & WGate 2 groups? See Gate Notes.  
Yes they're different. I saw a NOBA ♂ ~~at~~ <sup>at</sup> Gate

13 Dec Acorn Count: 1000





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M. Formicivorus

Pipeline

HNHR

- 26 April 1730 2 birds here as I go by. Fly away.
- 30 April 1800 No one here as I go by.
- 12 May 1800 ♂ & ♀ here. Didn't have scope so couldn't ID.  
The dog food I set up here on 16 April doesn't seem to have gone down much. I need to move it away from the nest hole of 86.
- 13 May 1530 A bird was here on arrival. I moved the dog food away from 86 hole (which is ~~very~~ damaged) to a not so great place (too low & open).
- 14 May Birds here at 1000
- 16 May 0645 2 birds here (seems to be all). ♂ & ♀. Flew toward Gate when I left.
- 21 May am haven't seen birds here in @ 1 week
- 1 June 1745 Saw a bird here as I rode by
- 2 June 1035 Drove by : saw no one.
- \*Update\* The ♂ here (1317) is also at Pump & Horse!
- 22 Aug 1600 2 NOBA birds here (♂ & ♀) ♂ looks young. He drummed once in the few minutes I watched. The two also ~~per~~ engaged in a mounting. There are also birds in a "territory" just down stream from Pipe. (NOBA ♂, NOID ♀, NOID)
- 23 Aug 2 birds here, seen driving by (as it were)
- 24 Aug Maria Roost watch - reports @ 4 birds roosting here. (Ya don't suppose it was the freaked out SS birds)
- 26 Aug 1300 3 birds here.  
roost watch - no one roosted!



LB-R

LB/R

1317

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M. Stanback

2

M. FormicivorusPipelineHNHR

29 Aug Set ambush at 86 nest hole. NOBA ♀ in

30 Aug After sleepless night pull string at 0445 - hole empty!

8 Sept Roosting: into that hole again - is there a 2<sup>nd</sup> exit in the knot above the entrance?

\* Group Update \* Founded 870822 by NOBAs. I'm guessing there is 1 NOBA ♀, 2 NOBA ♂♂. 5274, 5275, 5276. ♂ 1317 and ♀ 5259 abandoned Pipe 870604 were seen at Horsetail and Pump.

22 Sept 1010-1020 Watched holes. A bird went near the top hole; later bird near next hole down. At 1018<sup>00</sup> a bird went into the nest hole. At 1018<sup>20</sup> a bird came out (same? or maybe an incub switch). Bird going in had no food in mouth.

23 Sept 1400 Climbed. Hole empty but in good shape

7 Oct 0930 On arrival 3 birds flew up: 2 ♂♂, 1 ♀. One of the ♂ displaced the other (a NOBA), then all 3 left. I waited a few minutes and a NOBA ♂♂ arrived twice (once w acorn).

30 Oct ♂  $\frac{M}{ROR} / \frac{LG}{DB-Y}$  ♀  $\frac{DB}{R-LG} / \frac{DB-W(N)}{M}$

\* Group Update \* ♂ 5276 is supposedly still at large, while 5274 = 1447 and 5275 = 1446. These birds Founded on

13 Dec Acorn Count: 300





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M. Formicivorus

Warp 5

HNHR

22 Aug 1615 I hear birds at Wrp 5 !! They, like every other abandoned territory, have been re-colonized!

23 Aug 1300 Came up to check terr - no birds seen, but I did hear birds a little more up the hill and to the S.





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M. Formicivorus

Wolfpack

HINHR

18 Aug I hereby declare Wolfpack a legitimate group, different from RI. The members are ♀  $\frac{W/LK}{O/K}$  and 2 ♂♂  $\frac{LBO/M}{KON/W}$  and  $\frac{L/OB-W}{}$

They are taking turns in the "traditional" hole, thus a nest!?!?

23 Aug 1300 Saw at least 4 birds (1♀, 2♂, 1 NOID) ♀ had R on left, ♂ w lights. Watched from above: ♂  $\frac{M/Y-LB}{Y/LB}$  & RWN/M. Maybe saw another ♂ M-only. red on chin Maria saw ♂ LB-R/M, ♀  $\frac{O/Y}{}$ , ♂ Y/LB

\* Group Update: The new birds here are:

♀ 1175 from Wolfpack

♂ 579 From RI

♂ 1123 From RI

♂ 995 From RI (we think)

No one seen visiting hole today

24 Aug 1215 Bird seen in hole as I drive by

31 Aug pm Driving by see bird in hole. Return at 1645 to climb hole - empty, but in good shape.

\* Group Update \* ♂ 5260 last seen 870602, not seen 870823. Disappeared 870700 ± 1 M.

♂ 579 moved from RI 870700 ± 1 M

♂ 995

"

"

♂ 1123

"

"

♂ 1247

"

"

22 Sept 1023-1028: At 1023 a bird went into hole, at 1024

a bird came out & sat. 1025 a 2nd bird flew up & sat.

At 1026 3 birds came up, 2 went into the hole.

1027 all birds left. Mate guarding. Saw a mounting 1027<sub>50</sub>





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M. Formicivorus

Wolfpack

H/NHR

(22 Sept) Considering there were 5 birds here, I'd say that adds ♂ 1247 to the list of breeder ♂♂ here, thus ♂♂ = 579, 995, 1123, 1247 (even tho I didn't ID 1247)

23 Sept Twice today I've seen birds at/in the hole

26 Sept 1500 Climbed. 4 warm, opaque eggs. LED = 23 Sept

2 Oct 0915 Climbed. No baby sounds (didn't actually open) Adult birds were not shy and hung about vocalizing. About to hatch?

4 Oct 1130 Climbed - empty. Maybe that's what they were upset about on 2 Oct.

6 Oct 1600 LB-R/M ♂, also NOBA ♀ (actually J coming into ♀ plumage). I also saw M/DB-R. Dare I theorize? The nest was emptied, but the door was undisturbed, even though rickety (∴ not mammal [?]) But snakes in October? Na. It was murder by new ♀ (?) But these ♂♂?

7 Oct 0730-0930 The ♀ here is H ♀ from Fuch 1333. There is also the NOBA J ♀. The ♂ situation is stickier: Saw: ♂ 579 (I think), ♂ KONW (1011? R3) ♂ YLB, ♂ MWR / YLB, ♂ LBOM; There was intermittent chasing here, but nothing too violent. They were pretty content to store acorns & be with each other.

Update \* 1336 LBOM / DE-BP(W)/LP Connie, 871114, this bird hadn't been seen since banding at R1, but, as his brothers are breeders<sup>at</sup> Wolf Group is ♀ 1333 (Fuch H, now Wolf B) as of 871007. ♂♂ 579, 995, 1123, 1247, 1336. [Also concerning 1336; the R1 x Wolf censuses were very poor last winter (Katy)]

13 Dec Acorn Count: syc = 40, oak 170, oak on W side 75.





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M. Formicivorus

HNHR

Road 1

- 8 Jan 1000 Acorn Count: syc gran by road  $\begin{matrix} 599 \\ 251 \end{matrix} = 850$   
Oak gran on hill = 238  
Total = 1088
- 20 Feb 1545 # roost holes  
Acorn Count: syc @ 650  
oak 132  
total 782
- 4 April 1610 Acorn Count: syc 200 total 200  
oak 0
- 6 April 0700 5 birds here (in a vocalizing clump = mate guarding?  
Flying around together. I saw a ♀ w LB/K-Y  
for sure and she doesn't match the field list.  
Cindy watched afterbirds and reports nothing unusual.
- 17 April 0900 Mate guarding, drumming, 1 chase. 2 birds  
checked out the 86 Wolf hole together, so I climbed  
it. Empty, but nice chips. Gaping hole in back. Repaired.  
Alas, I hope they don't use it. Need a watch here.
- 23 April 1100 2 birds went to the Wolf hole. One went in. They  
also use the Wolf black oak. Climbed - empty.
- 26 April 1530 Bird to hole  
1700 Empty.
- 2 May 1530 Bird in hole on arrival. Climbed - empty.
- 6 May 1530 Empty. I'm beginning to have doubts.
- 13 May 1500 Empty. Really doubting. But I saw a bird flush  
from this area of the limb! I watched a while before  
climbing, but no one went in, despite the fact that this  
is their active area. I found Wolf's granary.





1987

M. Stanback

2

M. FormicivorusR1 - WolfpackHNHR

14 May I've moped by several times today. The birds spend almost all their time in the Wolf sycamore and the Wolf tree on the W side of the road. Considering that 1) I haven't ID'd these birds and 2) I missed Wolf's stores, these could be Wolf!

16 May 0650 Watched the hole (Wolf) for awhile, and a bird went in.

20 May 0845 Bird flies to hole as I drive by. Wolf checks it later - it's still empty!

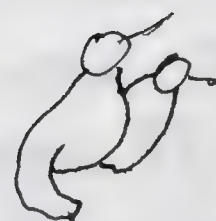
26. \*Update\* See Field list for what's up here and at Wolfpack - sorry to disappoint you folks, but there's more than 2 birds at Wolf. I've seen multiple birds at both groups, and also birds flying from one to the other (though I'm not saying there's only 1 group) geez folks. OK, there's 2 NOBA ♂♂ with a

17 Aug ♀ mw at the big lone snags downstream from Fuch. These seem to be R1 birds. Cruising closer to R1 itself, I find more rather animated birds, among them F1248 (LBDB/BWR). The activity is more on the PO Hill side of the creek than near the granary.

I did see a banded ♂ at Wolf (lite-dark/M).

18 Aug 0800-1200 Well, it seems to be a power struggle here in the R1 area. Or maybe a territory split. Anyway the R1 ♀♀ seem to be holding down the granary pretty well, with the help of several NOBA ♂♂ and an NOBA juvenile (Missed the nest). Anyway, the





M. FormicivorusRIHNHR

(18 Aug) real action is across the road, where a bunch of NOBA ♀♀ and ♂♂ are fighting it out for a rather uninviting granary tree by the now dry stream. The RI ♀♀ are not over here, and the NOBA ♀♀ are not intruding on the RI granary. It's not Wolf birds - they are now a legitimate group, with same ♀ and 2 banded ♂♂ - and they seem to have a nest in the "traditional" Wolf hole. The new group seems to have affinities w PO Hill and range from the lone snags toward Fuch down to Wolf. They seem to be clashing w RI (maybe) just across the road from the RI road granary. Seen at RI: ♀♀ 804, 1248. Are we sure ♀ 804 is DB Y, I seem to be seeing LB-Y repeatedly. I don't think I've seen 996.

1700 - Back to set strings for nets. Things quieter -  
 19 Aug 0615 - 0830 Tried to net birds. No luck. Not as active today. Noise heard at Road Warrior. (well, still very vocal, but much less chasing.

⊛ The new group by RI = San Sebastian

⊛ RI = ♀ 804, ♀ 996 (I think), NOBA ♂♂, & maybe a baby

28 Aug Roost watch: some in road granary, some S of hill granary.

\* Group Update \* ♂ 579 moved to Wolf 870700 ± 1M

♂ 995 "

♂ 1123 "

♂ 1247 "

At least 2 NOBA ♂♂ (5277, 5278) are now breeders with ♀♀ 804, 996, 1248 → arrive 870710 ± 1M





M. FormicivorusR1~~added 5277~~ ← ?H.N.H.R

23 Sept 1500-1520 Watched suspect hole up on the hill - nada.

26 Sept 1100 ♀ 996 + ♀ 1248 are involved in the Fuch P.S. !

28 Sept 1145 ♀ 804 is at R1, though ♀ 1248 is at Fuch.

7 Oct See Fuch notes. R1 ♀♀ shuttling between Fuch + R1.

\* Update : B ♀ 804, 996, and 1248 are still considered the R1 B ♀, despite the tendency of 996 and 1248 to hang out at Fuch. NOBA ♂♂ are as of 870701 ± 1 M

13 Dec Acorn Count: syc by road 1300  
oak on hill 270 > 1570





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M. Formicivorus

San Sebastian

HNHR

17 Aug ♀ 996 (I think) From R1 seen having it out w  
-22 Aug some unbanded birds in the snag below Finch. See  
R1 notes for details. This new territory starts  
on PO Hill and extends almost to the road directly  
opposite R1's road granary. Is NOBA ♀, 2 NOBA ♂.

23 Aug roost watch - at least 3 birds into R1 86 nest hole.

24 Aug 0740 - 0830 Tried netting at snag tree w  
dummy and PS tape. No luck 3 birds here.  
Set ambush at high hole in R1 86 tree. Birds treaked.

27 Aug Tried ambush again - no luck.

\* Group Update \* ♀, ♂, and ♂ Founded  
this group 870817 ± 1 week

22 Sept 1100 Helloed holes - nothing

26 Sept 1100 Don't seem to be involved in Finch P.S.

28 Sept 1145 "

Connie reports birds flying from SS to Finch.

30 Oct ♀ BP-LB/D.G. ♂ M/DB-Y(V)  
L.G-K/M Mv-W/Mv

\* Group Update \* ♀ 1448 and ♂ 1449 were the birds  
caught on 30<sup>Oct</sup> ~~Sept~~. While bleeding & banding (both birds  
wouldn't stop bleeding) a power struggle started at 5:15.  
1448 & 1449 haven't been seen since. At this stage  
I won't say whose here & isn't.

13 Dec Acorn Count : 40



0825

9 June ✓

1987

M. Stanback

1

M. FormicivorusFinch

7 Jan 1630 Acorn Count: Scyc gran 187  
 across ~~creek~~ <sup>road</sup> 0  
 total 187

Only 187  $\Rightarrow$  rather disturbing

Saw ♂  $\frac{R-B/R-}{R-B/M} = \text{♂ } (613)$

20 Feb 1600 # roost holes

Acorn Count: 81 that's it. There may not be a Finch nest this year folks!

4 April 1345 0 Acorns

6 April am Installed dog food feeder in main granary tree

16 April added log to feeder (they haven't touched it) Most of the food was shaken out in the process (Full-o-bugs too)

17 April 0930 3 birds here, 1 chase seen.

20 April am Kat, reports NOBA 99's, birds on dog food feeder. At 1000 I remove the training log and fill the metal feeder - there was some drumming here.

26 April 1530 Power struggle - low intensity. Birds at the hole on the underside-base of the big arc granary limb on the SE<sup>?</sup> side of the road-creek

16 May 0700 - 0730 Nesty watch. @ 0705 I saw a nice copulation. After a typical mount, the ♂ got his tail well underneath the female's raised tail. He then slid down her back a bit until he made good cloacal contact. They remained still in this position for 4 full seconds. He then dismounted, sat nearby, & then flew off. She stayed.







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M. Formicivorus

Finch

HNHR

- (16 May) During my watch, a bird went to the traditional nest hole once. But another bird visited a hole somewhere above on the same limb. No one visited the hole in the base of the arch limb granary across the road.
- 19 May 1530 Checked the traditional granary hole - empty, and didn't even look that great.)
- 27 May 1030 Bird in the ladder hole.
- \*Update\* New power struggle here (what is going on??) See Katy's notes. Looks like no breeding folks.
- 17 Aug Watching the lone snag downstream from Finch proper and seeing 2 NOBA ♂♂ with a ♀ banded MW. I assume these are R1 birds.
- 19 Aug am Went up hill and found Road Warrior, there were lotsa NOBA ♂ & ♀ having a power struggle.
- 23 Aug roosting - I hear birds at Finch (from R1). They're leechy.
- 25 Aug 1545 - 1630 Saw ♂ 1075 and a NOID ♀.
- 26 Aug 1425 - 1505 Saw ♂ and ♀ 988 from MacFlat (she was the breeder there) Is she now the Finch breeder?
- 9 Sept 0900 - 0920 Saw ♀ 988 (K/M) and ♂ O-K/M = 613(?). At one point there was a small chase w a 3<sup>rd</sup> bird.
- \*Group Update\* ♀ 1333 last seen 870716, 1<sup>st</sup> not seen 870825 ≈ gone 870801 ± 2 wks. ♂ 63 died 870701 ± 2 wks.
- 22 Sept 1100 Holoed holes - nothing
- 26 Sept 0945 - 1000 Power struggle? Well, it's noisy (wakas)





M. FormicivorusFuchHVHR

26 Sept ♀ 988's there, but so are several NOBA ♂♂, including a NOBA ♂ Juv. (see white tips on back feathers)  
 1100 ♀♀ 996 + 1248 from R1 are here, and dominating the Fuch granary. There are also some NOBA ♀♀ here. The Fuch ♀ (988) is hanging out in the droopy gran limb tree on the E side of the road. She's with NOBA ♂♂. No sign of Fuch ♂♂.

\*\* More Group Update \* So... ♂ 63 gone 870701 ± 2 wks, ♀ 1333 gone 870801 ± 2 wks. ♀ 988 moved from MacFlat (where she was breeder) to Fuch between <sup>870716</sup>~~870531~~ and 870826, ∴ moved 870801 ± <sup>2 wks</sup>~~1 month~~, ♂♂ 613 and ♂ 1075 became breeders upon her arrival 870701 ± 1 month. However, their tenure was short lived. They disappeared 870918 ± 1 wk. There are currently NOBA ♂♂ ( ) here. However ♀ 988 is fighting NOBA ♀♀ and ♀♀ 804, 996, and 1248 from R1 for the territory.

28 Sept 1145 ♀ 988 is here (on the E side) while ♀ 1248 from R1 is on the W side. Also NOBA ♂.

30 Sept 1000 NOBA ♂ + NOBA ♀ on W side, NOBA ♂ on E side.

7 Oct 0830 R1 ♀♀ 1248 and 996 are here, but also shuttling back to R1. At one point I saw 6 birds fly from Fuch to R1. Also saw NOBA ♂, NOBA ♀ here. Connie reports birds flying from SS to Fuch.





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M. Formicivorus

Fench

MNHR

\*Group Update\* Can't say that I know what's up. For now I'll still consider 7 988 alive, and the ♂♂ as well. However, R1 ♀♀ are hanging out here, as are NOBA ♂♂ & ♀♀. Needs work. ♀ 1333 became breeder of WOLF @ 871007 ± 2d

13 Dec 1100 Acorn Count: limb on E side of road: 50 } 97 total  
main granary : 47 }





1987

M. Stanback

1

M. FormicivorusMac FlatHNHR

7 Jan 1645 Acorn Count: Burned stump on E side road: 97  
 Total 97. Pretty sorry. Nothing in string tree  
 in the flat. Check w Walt about other stor trees.

8 Jan 0900 More acorn counts: Searched & Found more grans.

Burned stump	<u>97</u>	148	12
Oak & gold string	<u>42</u>	68	0
8' stump	<u>10</u>	4	0
sycamore beside stump	<u>204</u>	234	35
sycamore <sup>NE</sup> of stump	<u>10</u>	<sup>up road from stump</sup> 0	<u>0</u>
★ <u>Total</u>	<u>363</u>	<u>454</u>	<u>47</u>

20 Feb 1520 Acorn Count  
 # roost holes =

4 April 1600 Acorn Count

20 April 1015 Birds here. Maybe invading R3 as well.

23 April 1130 Bird sitting at new hole @ 3 feet above the  
 knot-hole in the tree w the gold string. The hole  
 is nice but unfinished. There was a chip in the door.  
 1215 checked 86 hole - in nice shape (Fresh chips?)

2 May 1600 Helloed holes w no results

12 May 1745 86 hole w 4 warm but rather recent eggs!  
 This hole is very deep. I may have to make a new door

18 May 1430 No one in hole on arrival. Climbed. Still 4 eggs.

20 May 0630 Bird flushes, but I hear no kids. Katy doing watch.

21 May 1100 RL = 5.15 LL = 4.84 (new) 2 eggs.

22 May 1150 RL = 7.75 LL = 7.8 BK = 5.95 + 1 egg hatching





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M. Stanback

M. Formicivorus

MacFlat Nest Record

HVHR

12 May 1745 86 hole v 4 warm eggs

21 May 1100 2 hatchlings, 2 eggs

23 May 0815 4 babies

24 May 1500 3 babies

30 May dead baby seen thrown out of nest,  $\therefore$  2 kids now





1987

M. Stanback

2

M. FormicivorusMacFlatHVHR

13.9

23 May 0815 RL = ~~14.1~~ LL = 13 Bk = 10 - = 4.6

24 May 1500 RL = 15.2 LL = 14.6 Bk = 11.25

26 May 1545 RL = 20.35 (its LL has a big cut)  
LL = 20.1 Bk = 11.6

28 May 1630 RL = G = 24.4 LL = 23.9 Bk = 10.5

29 May 1640 G = 28.25 LL = 28.3 = 9.2

30 May 1700 G = 33 (12.85) 8.3 NOBA = 33 (12.9) 8.1

31 May 1240 G = 33.6 (13.7) 8.9 = 37 (13.6)

1 June ~~1800~~ 1800 Fucking brand new rapidograph and its  
already Fucked G = 42.1 (14.4) 9.4  
Noba = 44 (14.35) 9.42 June 1545 G = 52.5 15.3 9.8  
- = 51.3 15.2 9.9  
Grinnell, Any complaints or I'll kill you. And I got the meanst3 June 1740 bird wt chor 1<sup>0</sup> 1<sup>0</sup> TC TN BW TS T

G 59.2 2 16.2 10.7 2.5

- 54.7 3.3 16.1 10.4 3.1

4 June 1715 G 61 3.5 16.9 11.05 2

banded  
after wt R 60.8 4.8 16.7 10.85 3.8

5 June 1515 G 66.2 5.9 17.4 11.9 7.6 3 5.9 (3)

R 66.2 7.7 17.2 11.4 7.4 4.8 6.5 (2)

6 June 1545 G 67.5 10 18.1 12.3 7.3 4 8.2

R 68.9 11.75 17.8 11.85 7.5 5.9 8.9

7 June 1540 G 72.9 14.5 18.5 13.1 7.4 5.8 11.3

R - 16.1 18.3 12.1 8 12.5

8 June 1645 G 74.5 46 18.4 18.9 18.95 13 7.8 7.5 14.6

R 75.3 47 19.3 21.3 18.9 12.9 7.8 9 15.9

9 June 1630 G 77 52 21.2 24.4 19.45 13.7 7.5 10.5 18.2

R 77.3 53 20.7 26.1 19.45 13.2 7.9 11.6 19





1987

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3

M. FormicivorusMacFlatHNHR

10 June

1530 Bird wt chor 1's 1° TC TN BW TS T

G 78 58 22.4 29.5 20.35 13.6 7.75 12 21

R 78 58 23.4 31.4 19.9 13.4 7.9 13 22.2

11 June

1445 G 80.1 63 24 35 20.4 14.3 7.8 13 24

R 79.6 63 26.6 36.7 20.1 13.8 7.8 13.9 25.4

12 June

1515 R 71.8 67 22.5 40 20.85 13.9 8 16 27.5

dead G 66 (26) (37) 14.2 25.8

head + right wing gone. Weasel? The other baby was at the hole when I opened it - very hungry & very upset. Have he been abandoned by the adults? Walter says to give the kid some crickets & leave him in the hole. I think I'll set some traps too.



= dissection = well, if there were 2 of those little globbies, I'd say ♂, but I see only one (on the bird's right side) so...

1730 Gave the survivor 15 crickets (Force Fed last 2) He must have ruptured a (some?) air sacs, since his neck & chest were all puffy. I set 4 Shermans at the base of the tree.

13 June

0600 Traps unsprung. Baby crying (but warm). Ate 15 more crickets. He's still all puffy. Owl?

1730 Weighed 63 g. I declare him abandoned. I gave him 15 crickets and put him in the aviary.

14 June

0700 Found dead in aviary - didn't seem pecked up, just neglected. Air sacs still puffy. Dissection revealed no globbies. Thus no babies were Fledged along the road this year.

26 Aug

9988 (the breeder) is now at Finch!!



21 0  
23 2

26 0  
28 2 | 27 0  
28 1

1987 M. Stanback

4

M. Formicivorus

MacFlat

HNHR

9 Sept 0935 Saw NOBA ♀, confirming that ♀ 988 is the Finch breeder. Also saw ♂ 1073 (O/B.W.)  
1100-1150 Watched & saw NOBA ♀ and ♂ 1073 repeatedly. Both birds visited the new yellow string hole (♂ once, ♀ twice) ♂ spent 5 minutes pecking at the corpse of a dead ACW in the hole. (I'll wager it's ♂ 1082). Climbed it: dead ACW, <sup>too rotten</sup> no ID.

22 Sept 1100 Helloed holes - nothing

1630 A slight border dispute between MacF + R3

1700 Cruising by I check VAK holes - nothing. On my way to the liveoak hole a bird flushes from it. It ducked away quick, but I think it was ACW.

23 Sept 1430 Climbed. Empty but fresh chips.

1550 As I was watching R3, I noticed MacF birds going to a low hole in that small sycamore that's just off the road on the PO hill side sorta where the road curves. You know. Anyway they went to it several times w/in @ 15 min. I checked it and it's a hole under construction (early phase). It's @ 8 Ft off the ground and overhanging the road. Please don't use it! or dead ACW's for sure.

Group Update

NOBA ♀ 5279 is B as of 870801 ± 2w

988 left to become B at Finch 870801 ± 2w

1073 inherited B on 870801 ± 2w

1082 is probably the dead ACW in that hole, but I'll





M. FormicivorusMCFLHNHR

not kill him off yet. ♂ 1292 might be the dead bird (died as a H), disappeared, or maybe he's alive and now a breeder. No action taken yet.

30 Sept 1000 NOBA ♀ here. Helloed holes - nothing.

6 Oct 1500 Found remains of ACW. Hit by car? Pile of feathers.

7 Oct 1000 Saw ♂ 1073 OTB-w and 2 NOBA ♀♀. 1 ♀ is an adult bird, the other a juv coming into ♀ plumage.

\* Group Update \* NOBA ♀ 5285 and ♀ 5287 (juv ♀) on ♂ 70801 ± 2w became MCFL breeders, helper males thus became breeders

3 Dec Set ambush at low hole in gold string tree. 1 NOBA ♀ in. Caught her! Despite the rain - see cap rec

13 Dec Acorn Count: Burned snag on E side: 320

Gold string tree 100

tall stump 25

syc snag beside ↑ 300

branchy syc towards R3 35

total 780





1987

M. Stanback

7

M. FormicivorusRoad 3HNHR

8 Jan 0930 Acorn Count:

Oak on E edge of road 88

Syc granary 452Total 540

20 Feb 1500 Acorn Count:

Oak : 0Syc : 221total : 221} 221

# roost holes =

16 April Put dog food feeder + log in granary

20 April 1030 They don't seem to be eating dog food. I'm not sure who's here. I saw one bird, but it seemed to have come from MacFlat.

23 April 1230 Dog Food log still has Food, as does feeder.

14 May I've been cruising by here lots. I've yet to see any birds, and the log still has dog food. Abandoned?

17 May Walt reports bird in over road hole.

24 May 1430 Walt climbs hole - 4 incubated eggs.

2 June 1230 Walt checks hole - EMPTY !!

24 Aug 1215 - 1315 Watched granary - no one showed !!

9 Sept 1000 - 1045 Saw ♂ 1011 and ♀ 1205 repeatedly in the sycamore and the valley<sup>(top)</sup> oak granaries. Twice saw a 3rd bird (one look - a NOBA ♂?) The 3rd bird seemed to be chased away - not very vigorously. So I'm not completely sure it wasn't ♂ 1297 or a new juv.

22 Sept 1100 Hello'd holes - nothing

1600 - 1700 Watch (esp 87 hole) No activity. Saw ♀ 1205

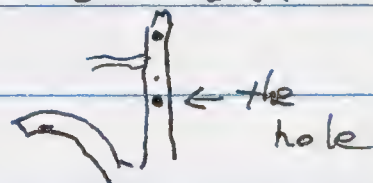




M. FormicivorusR3HNHR

23 Sept 1540 - 1605 Watched granary area from the south.  
Twice a bird went to (+ disappeared) a certain  
chunk of the syc granary. After I walked  
by + checked where the birds had been going  
(the face flies are horrendous - about 75 around  
me - seriously) and there's a hole.

26 Sept 1005 - 1045 Watched hole - nada ] view from N



30 Sept 1000 Hello'd holes - nothing.

13 Dec Acorn Count: Oak 250 + syc 650 = 900 total  
heck, call it 1000 (don't worry Connie, I trust you) Connie count  
Hey, there's a golden oak here!





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1

M. Formicivorus

5 Hill

HNHR

14 Dec '86 1300 Acorn Count 1° 1467 Walt (me 1005)  
2° 72 } 1539  
total 1539

22 Feb 1600 Acorn Count 1° : 1200  
2° : 82 } 1282  
total 1282

2 May Whoops - you mean I don't have an Mar or April count?  
1730 Saw a suspicious departure from the area of  
the traditional hole in the bluebird box tree. Went up <sup>(not up tree)</sup>  
and found a nice new hole about 1 foot above it. Of  
course I left my climbing gear (otherwise I wouldn't  
have found anything!) I'll climb it tomorrow.

3 May 1430 Well, well, Changes. There are 3 birds here. And  
I think they'll nest in the 'traditional' tree. But  
which hole? Prob not the 'trad' hole - it had only  
a few fresh chips in it. However, the hole above  
it is in ship shape - lots new chips. There's also  
a SE facing hole about a foot above & around  
from said hole. It too has fresh chips.

7 May 1600 Climbed the holes again (thunder ~~the~~ overhead). All  
empty. The new one (facing west) still looks likeliest.  
Saw 4 birds Flush from 'nest' tree upon arrival!

14 May Walt reports 4<sup>th</sup> egg laid on 13 May. Nest is  
new NE facing hole (see above)

26 May 1330 Failed. 1 egg unhatched. Several shells. Starvation?

25 June 1215 Acorn Count : 50





1987

M. Stanback

2

M. FormicivorusSchool HillHMR

5 Aug 1045 Nest hol: dir  $17^\circ$ , ang  $+5^\circ$ , ht: trad  $+50$   
interest hol: dir  $249^\circ$ , ang  $-25^\circ$ , ht: trad  $+30$   
DNH gets smaller as go up, limb dead!

18 Sept 1630 Checked the three holes in the traditional trees. All 3 in good shape, w chips. All the holes in the Galen Rowell tree are trashed.

20 Sept 1120-1130 Spied on nest tree. Nothing.

30 Sept 1545 Checked the 3 holes. The traditional hole had lots of Fresh chips.

11 Nov Connie reports that during her watch, a good-sized chunk of granary fell.

19 Dec 1500 Acorn Count: Main Gran: 2700  
other tree: 100

the piece that Connie saw fall had @ 300 holes and 200 acorns. I leaned it against the tree trunk, but the acorns were sorta soggy. Saw 1384.





1987 M. Stanback

1

M. Formicivorus

SHW

HNHR

14 Dec '86 Acorn Count: 597 (me + Walt)

nice Black Oak Acorns

8 Jan Katie reports unbanded birds here.

16 Mar 1700 Acorn Count: 365

Roost watch. 3 birds into the Knot hole between 1800 + 1810.

24 Mar Roost watch: 3 birds into 85 nest hole (6:21)

25 Mar Arrived too late to set up 2 ambushes, so set up 85 hole. Birds didn't like it. Only 2 checked it, one ended up in Knot (ambush there would probably have been worthless)

11 May Walt reports Fresh babies in the Knot hole.

14 May " 3 babies, ~ 9 do.

29 May 1600 Baby 1405 89 70 27 52 21.1 14.1 7.8 22 40

1406 81 79 24 49 19.2 12.5 8.3 19 36

1407 82.2 85 ~~80~~<sup>26</sup> 60 20.1 14.0 7.5 22 41

~~wt~~ <sup>wt</sup> chr 1° 1° TC TN BW TS T

hematocrit

25 June 0950 - 1150. Census - nothing - a couple Fly.bys.

\* Update - hey, these guys are at Ref1, CC, Blm1  
Saw baby 1406

5 Aug 1100 Bird left granary on arrival. Nest hole: div 174  
DNH 110, ht 8.1, ang -10, limb alive, valley

27 Aug 0930 1 hear birds above the lane at 1800. SHW?

19 Dec 1430 Acorn Count: 220. A bird Flushed on arrival





1987 M. Stanback

1

M. Formicivorus

Art Too

HNHR

- 26 April Walt reports bird flushing from 86 tree.
- 27 April Stopped by. Cut out hole looks freshly used.
- 28 April pm. Cut hole w chips (fresh) door was loose (now fixed)
- 3 May 1145. Very fresh chips, but empty.
- 8 May 1130. Still empty.
- 12 May 1050. 3 Fresh eggs (numbered)
- 21 May 1015. 1 Fresh egg. 1 labeled it #1. I guess they were predated. The egg was cold, but there was a bird in the hole on arrival!
- 22 May 1330 Egg #2 marked
- 23 May 1800 Nest empty!! What's going on here!?
- 5 July 1300 Acorn Count: 0. Well, I suppose they may have pulled off a nest w/o me knowing, but considering their bad luck w eggs + 0 acorns now (+ the fact that if they had any sense they would have changed holes) I'm not too worried! But I will be on the lookout for a Fall nest. Ya know, it's SHW we should drop, not Art 2!
- 11 Sept 0800 Helled hole - nothing.





2000  
1000

1987 M. Stanback

1

M. Formicivorus

Black Oak

HNHR

9 Jan 830 : Acorn Count : Main area 1092 } 1604  
side area 512 }

For the 1<sup>st</sup> time they are storing in the bark of one of the side trees (the one with the roost hole facing SOBO)" WDK

26 Feb 0845 Acorn Count : Snag near broken 800 }  
gran tree near SOBO w brush at base 324 } 1784  
other " " w/o " 660 }

Walt, what's "main" & "side" areas (think he missed some)  
about 12 roost holes : Birds seen 1190, 1346

1 April 0920 - 1040 . Nestiness watch. Some mate guarding.  
No interest in any holes. However, one knot hole (big) in the tree below the P.O. tree was a center of attention (maybe had water in it)

7 April ~~08~~ 0720 - 0800 Mate guarding a lot. One bird went to the knot hole below the 86b (p.o.) hole and stayed in 1 min. There's a nice hole on a limb near (same ht) 86a hole.

8 April 0745 - 0830 Nesty watch. Mg. A ♀ looked into the p.o. hole, but moved on. Watch it. Birds spending a lot of time in the big blk oak at the end of Brian Field. Found nice, new hole there. Set blind there. It's a long shot...

9 April 0625 - 0645 No luck at the new hole, so checked main area til 0735. No luck. ACW's & scrub jays flycatching





1987

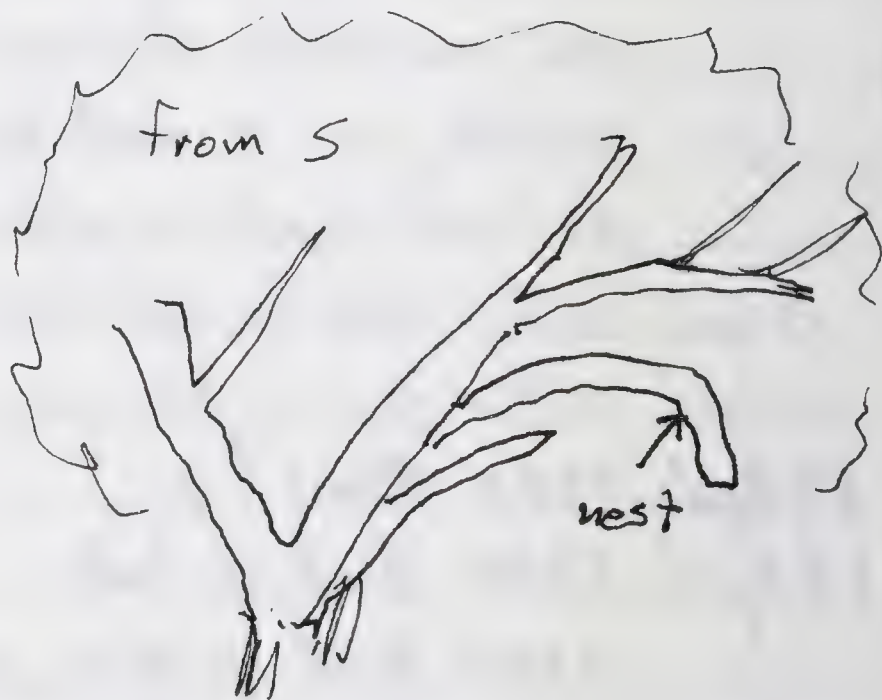
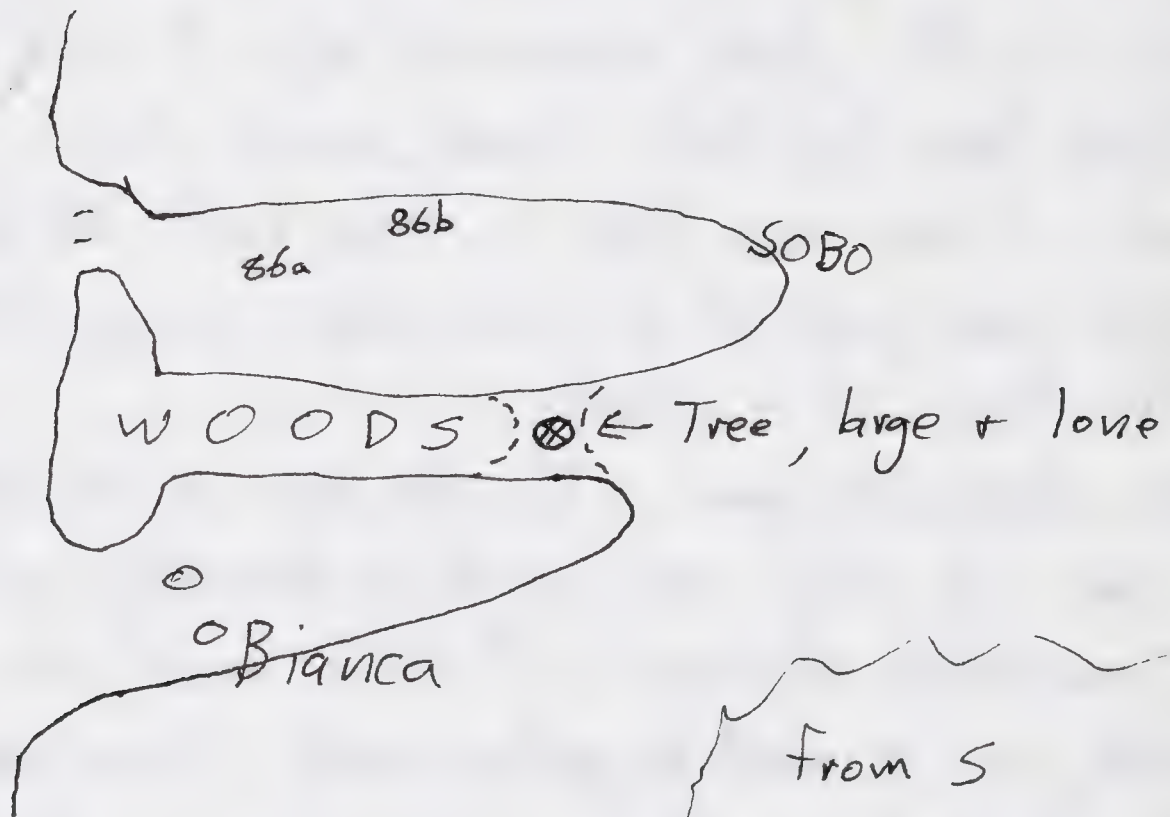
M. Stanback

2

M. FormicivorusBKOKHVHR

- 10 April 1030 Bird at P.O. hole on arrival. Went inside.  
1500 Climbed. Empty - there were wood peelings + a little moss inside. I left it. Too much P.O.!
- 12 April 1630 - 1730. Spied unsuccessfully. A bird seemed to Flush from the hole toward Lower Bian. I set the blind. A nice new hole is being built ~~in~~ facing wsw in the tree just S of the lower snaggy tree. Its in the base of a stump.
- 13 April 1420 Damn, I'm good. The far hole in the BKOK is the one. ♀ 1190 was working feverishly on it, bringing out mouthfuls of chips. ♂ 426 could also fit inside, so it must be getting ready. There was also a third bird in attendance, see map on back. →
- 14 April 1230 Came by and bird was in hole. Put up string.
- 15 April 1230 Bird in hole on arrival. Cut door - empty.
- 17 April 1200 Empty
- 18 April 1300 Bird in hole  
1345 Bird in hole, climb - empty (working on hole)
- 20 April 1300 Hole empty (no bird in hole on arrival - but they have worked on it since 18 April.) On my way out, though, there was a bird sitting at the '86 a' hole. But this hole looks blocked up.
- 21 April 1100 Bird in hole on arrival, but hole still empty!
- 22 April 0900 No one in hole on arrival, hole empty - fresh chips indoor.
- 24 April 0930 Ditto. What's up? They seem to be mate guarding. A bird went to the p.o. hole after visiting the knot. (Another bird also went to the knot.)





M. FormicivorusBKOKHNHR

25 April 0840 - 0920. Watch the new hole for action. None. Afterwards I spy on the main area, and sure enough, the bastards have pulled a fast one on me. There was a bird in the 1986 a (r 85ab) hole. Damn, and the new one was such a breeze to climb! Well, there was no string. I tried putting one up there, but there's something there that breaks it (twice). Fucking A.

26 April 0930 Finally got to the nest. 3 cold fresh eggs.

30 April 0900 Tried to climb, but was too wet for string.

2 May 1045 Disappointment city. BKOK - producer of 11 babies in 86, the super studly group - has a clutch size of 3. Furthermore, now I don't know when they'll hatch. Maybe they'll be super babies.

6 May 1015 None hatched or pipped.

7 May 1015 Put ear to hole - none hatched yet.

8 May 1045  $RL = 4.59 = 3.59$  not looking good (dehydrated)  
 $LL = 4.6$   $RW = 4.1$

11 May 1115  $RL = 12.4$   $LL = 12.75$   $RW = 13.75$

12 May 1030 16.1 17.4 18.4

13 May 1100 G 21.0 O 22.5 B 23.6

14 May 1130 25.8 27.25 28.5

TC 10 10.8 10.8

TN 7.1 6.5 7.3

15 May 1115 30.5 31.5 36.3

11.1 11.8 12

8.1 7.8 8.2





1987

M. Stanback

M. Formicivorus

BKOK Nest Record

HNHR

26 April 0930 3 cold Fresh eggs in 86 a hole (despite their interest in another hole in another tree)

2 May 1045 still 3 eggs

8 May 1045 3 hatchlings

30 May 0845 banded/bled 3 kids





1987 M. Stanback

4

## M. Formicivorus

BKOKH/NHR

17 May 1100 O = 42.5 B = 46.1 G = 40.1  
 TC 14 13.8 13.2  
 TN 8.8 9.1 9.5

19 May 1215 O = 50.1 B = 55.2 G = 49  
 TC 15.45 15.5 14.9  
 TN 9.7 10.4 10.45  
 eyes  $\rightarrow$   $1^\circ$  3.8 2.7 2.6  
 opening TS 2.1 2.8 1.5  
 BW 6.8 7.2 6.8

23 May 1615 Bird wt chor  $1^\circ$   $1^\circ$  TC TN  $B_{\text{blue}}$   $B_{\text{W}}$  TS T  
 O 67.5 17.9 17.5 17.5 11.5 - 6.5 11 14  
 G 68 <sup>16</sup>~~13.9~~ 13.9 17.5 12.5 6.8 6.3 10.4  
 B 76 <sup>16.7</sup>~~16.8~~ <sup>9</sup> 16.8 18.1 12.4 7.3 11.1 12

28 May 1145 O 70 67 22.3 40.7 19.1 12.6 9.4 7.2 16.5 28.5  
 G 66.2 64 23.4 37.8 19.8 13.2 9.3 7.1 12.7 24.5  
 B 80 69.5 24.8 42 20.1 13.5 10 7.7 17 28.2

30 May 0845 O 74.5 76 23.5 50.4 19.9 12.9 7.3 17.3 34.5  
 G 67.5 74 21.6 48.1 20.4 13.85 7.1 13.7 29.7  
 B 80.2 79 29 52.5 20.5 13.8 7.7 23.4 34.2

O =  $\frac{O}{DB-R(N)}$  = Blood 1 blue rump  
 902.43170 / Br - O

B =  $\frac{D. \text{Blue}}{DB-LG(N)}$  : Blood 2 green rump  
 902.43169 / DB - LG

G =  $\frac{902-43166}{LG}$  = Blood 3 red rum  
 B. Pink - Mv / Black - W(N)

1 June 0915 O 28 87.5 25.2 60.2 20.6 13.5 7.25 13.3 42.1  
 G 75.5 85 21.8 58.3 21 14.5 7.35 12.7 36.8  
 B 87 89 26.3 62 20.8 14.3 7.8 19.4 40.7

3 June 0945 O ~~82.6~~ 82.6 98 23.3 71.1 21.1 14.2 7.6 17 47.3  
 G 77.5 95 23 68.7 21.8 15.1 7.55 14.6 43.3  
 B 88.4 100 25 (42.5) 21.2 15.3 7.9 16.5 48.1





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5

M. FormicivorusBKOK

HNHR

5 June 0920 O(B) 81 107 21.8 80.8 21.7 14.65 7.6 15 53.1  
 B(G) 84.6 110 21.2 82.9 22.8 15.8 8 13.3 55.3  
 G(R) 75 104 22.1 79 22.5 15.7 7.3 12 50.3

14 June 0820-1000 A rather confusing am here. I was set up near the nest tree & bracken facing the dead tree towards A1 (you know) I heard babies, but they never flew to the snag. However, there were birds that hung out in the snag that when they came or went, it was usually from/to the A1 direction (but not always) Saw: ♂ BWN

♀ M

who are these birds.

Are they all BKOK?

♂ LB-DB/Y = 1209♀ GWN/M♂ R-B♀ KBPN/M

18 June Roost watch: bad news - they're all in the P.O. hole!


21 June 1200 Acorn Count: Gran beside 87 nest tree: 310 }  
 Gran below P.O. tree: 125 } 435

26 June 0815-<sup>1130</sup>~~1040~~ Baby watch. In deadish tree I saw some group male, but also ♀  $\frac{M}{WO}$ . Who the fuck? Moved blind and saw baby w red rump. Also seen 1006, 1190, 1213, 1004, 426. Saw J 1410 repeatedly (red rump), but no other kids. ♀ 1190 was seen feeding 1410 several times, but near the end I saw her attack him viciously & repeatedly.


2 July 0800-1000 Census: 426, 1006, 1007, 1009, 1410

6 July 0950-1130 Adults & kids spending alot of time at the





nice pens  
Grinne II  
↖



300  
20

blkoak

CBH 465  
slop 15  
ang 20

1987

M. Stanback

6

M. FormicivorusBKOKHNTIR

- 6 July PO hole and the knot below it. Saw only 2 kids  
 (1408<sup>blue</sup> 1410<sup>red</sup>) At one point, red<sup>1410</sup> butt got pecked by a  
 NOID baby (1408?) An adult ♀ (1007) begs like a baby  
 (From 1190) → however, 1410 was outside the hole  
 looking in & — pecked at him from the inside, so  
 I'm not sure it's a legit dam interaction. Also seen:  
 426, ~~1004~~ 1004, 1006, 1007, 1009, 1190. Oh yes, BKOK  
 birds were hanging out across the road <sup>just</sup> below A1.
- 8 July 0930 - 1120 : 1408 Fed lots by 1190, 1408 >> 1410,  
 though I wasn't thoroughly convinced. I'm getting very  
 suspicious .. there are adult birds hanging around  
 the PO hole and knot hole below it (esp) almost all  
 the time. If it was just 1 hole, I'd say nest, but  
 2? And with babies in it too? (but see Y)
- 14 July 0845 NSS at the 'trial' hole over in the BKOK. Limb  
 dead. No gran. Dir 300, asp 20, CBH = 465, slp 15,  
 hol ang 20, ht = , dep = , CHH =   
 0900 - 0950 Saw kids 1408 + 1410. At one point they  
 were sitting close to each other begging from a ♂, but  
 neither took a real swipe at the other. But 1408 may  
 have been more defensive (maybe this was because he had  
just gotten beat up by ♀ (1004). During this time I  
 heard 5 bouts of alarm calling (4 in 1/2 hr)
- 25 Aug 0930 I saw a bird fly from KOUT to BKOK
- 11 Sept 1120 Saw 744 + 1212 along w several other birds in  
 the woods at the LA2 corner of the territory
- 1200 Hello'd holes - nothing





1987 M. Stanback

7

M. Formicivorus

BKOK

HNHR

23 Sept 0945 - 1015 Watched for nestiness. No interest at 87 hole or PO hole. Lotsa activity at the down hill granary & there is a nice hole there. There's a 'new' hole at a live snag on the S side. I saw 3 birds: ♀ 1190, ♀ 1212, and ♂ J 1408. Found Feathers of ACW that was nailed by something.

\* \* \* Group Update \* ♂ 1408, ♀ 1410, see 5 Oct Notes for 1344 who had been deleted, but was seen (NTS) 871005

5 Oct 0800 - 0940 Census, etc. Birds visited the knot hole below the P.O. hole 3 times - but I'm gambling its just for water. Birds seen: ♂ 1209 (however, his bands seem to be BP-LB/M, not BP-DB/M), ♀ 1004, ♀ 1211, ♀ 1212 (problem - I saw <sup>NM</sup>KPK, but it didn't seem like B-Y(N). Also I saw another ♀ not on the field list: K-BP(N) M, Could this be the 1212 bird DB-LP/Red

1223  
UA2

1344  
BKOK

I thought I saw today (and 870911 and 870923?)  
Saw ♂ 1213, and J 1410 (who is a ♀)

∴ saw 1004, 1209, 1211, 1213, ♀ 1410, maybe 1212, <sup>and mystery</sup>bird

→ This mystery bird is probably 1344 (a daughter who hadn't been seen in a while) or maybe 1223 from UA2 IF 1344, check left leg - 1344 has (N) on left.

5 Jan 1988 Acorn Count: W tree : 2000

snaggy NE tree 1200

SE tree 1000

+ extra 100

} 4300





1987

M. Stanback

1

M. FormicivorusSOBOHNHR

9 Jan 0900 Acorn Count : 895 (probably missed several hundred by counting only from uphill side) WDK  
The granary is pretty full.

26 Feb 0900 Acorn Count @ 800. Again this was from the uphill side only and was a verbal count  
Birds seen : 736, 1039, 5222

12 April 1515 - 1545. Checked (hello) the 2 holes in the granary. Nothing. Still plenty of acorns. Sat & waited for birds. Never came.

27 April 0850 - 0925. Watched the 2 holes in the granary. The cut out one looks freshly used. Birds seen were just flycatching, no mate guarding. They seemed to come & go toward the cabin. However, I did hear them from the direction of the 85 nest. I scouted in that direction afterwards but got nada.

30 April 1020 - 1045 Hid & watched the granary holes. Birds were around a little, but none to holes. Heard activity by SOBO birds in the direction of Bianca.

7 May 1020 - 1035 Watched granary holes. Nothing.

29 May 0845 - 0945 Watched granary & Walked around. No interest in granary holes. Seemed to fly to NW Mostly. Plenty of acorns left. Saw ♂ BWNTO, ♂ YO, ♂ RWB, NOBA ♀ getting pecked, tail spots, & making baby sounds. There are 736, 1039, (~~1039~~), & 5222.



~~MM~~ KM

R

G built

B "

BO- MM K  
RG M  
NM NW

1 61 59

2 53

1987 M. Stanback

M. Formicivorus

Arnold 1

HNHR

- 9 Jan 0900 Acorn Count: 2573 in main tree
- 26 Feb 1045 Acorn Count: A three sided count rendered 2000 acorns. I think I was more thorough on 9 Jan. Birds seen: ♀ 568, ♀ 1319 for sure. I also thought I saw ♀ M L B. This may just have been 1319 again. These 2 ♀♀ were vicious toward titmice. They were on Jan 9 as well. An unbanded ♀ showed up in the granary, but was chased away by one of the residents.
- 6 April 1300 Acorn Count 1925  
Saw ♀ LB-Y/Y-LB and ♀ M/GWN. They scolded me a lot, just like last time. They don't appear in the field list. Somethings fucked here. Whoops! that's 1319 (the second one)
- 7 April 1445 A ♀ at the 86 hole. Another ♀ sitting nearby. Considering group composition, p.o, etc, I'll opt for an egg toss watch.
- 8 April 0650 - 0730 No action at hole. Intruders. M.g.?
- 14 April 1100 - 1145. No interest in holes that I could see (From N) Just lots flycatching. Some intruders or m.g. too. Not hanging out in granary very much. As I'm leaving, a bird looks in the hole, then flies away.
- 15 April 1400 ♀ M flies to hole - looks in, then moves up to 1 m and sits for a while. Fucking rapidograph.
- 17 April string breaks, put up new one. Bird at hole.
- 18 April 1400 Al is fucked. The new string broke. Something up there stops the string & rope



LR  
B  
R

1987

M. Stanback

2

M. FormicivorusAIHNHR

20 April put up a new string

21 April 1100 4 eggs. I numbered one of them as #1. I couldn't reach any of the others. set up a blind near by.

22 April 0800 Ah, new r-pidograph. Climbed + widened hole. #ed other eggs (no new ones) ∴ 1-4. Too early?

29 April 0900 Still 4 eggs.

2 May 1000 1 hatchling (blue on RL) + 3 eggs.

3 May 0915 RL<sup>red</sup> LL RW (blk) + 1 egg

7.0 5.1 6.55

4 May 0900

~~10.25~~~~4.1~~~~10.22~~

9.5

6.9

9.2

+ 1 egg

4 6 May

0745

16.9

14.1

17.2

+ 1 egg

7 May

0800

20.9

18.4

21.5

+ 1 egg

8 May

0800

24.4

21.8

25.75

10.5

10.1

10.7

7.1

7

7.3

11 May

0815

35.9

32.25

39.75

13.1

13.0

13.45

8.9

8.8

8.9

12 May

0800

40.2

37.4

44.1

14

14.1

14.1

9.4

9.4

9.4

13 May

0815

44.7

41.5

49.0

14.6

14.8

15.1

10.0

10.4

10.2

2.9

1.4

3.7

3.1

2.5

2.5

1°  
tail sh  
BW

6.65

6.5

6.4



14 May  
1245

	R	-	K
	50.9	52	57.7
	7.4	3.9	7.9
10	15.6	15.8	15.8
TC	10.8	10.4	10.8
TN	5.7	3.8	2.5
Tail			

#3

5.39 - 5.4

5.18 • 1.4  
~~9.78~~  
1.40  
 6.18

1987

M. Stanback

M. Formicivorus

Arnold 1 Nest Record

HVHR

21 April 1100 4 eggs in 86 hole

2 May 1000 1 hatchling + 3 eggs

3 May 0915 3 " + 1 egg

25 May 0830 3 kids banded + bled





1987

M. Stanback

3

M. FormicivorusAIHNHR14 May 1245 Bird WTR 1°<sup>10</sup> TC TN G BW Tail Tail sheathR 50.9 7.4 - 15.6 10.8 - - ~~5.7~~ 5.7

K 57.7 7.9 - 15.8 10.8 - - - 2.5

- 52 3.8 - 15.8 10.4 3.8

15 May 0815 R 52.9 9.3 - 15.8 11 6.8 ~~5.3~~<sup>8</sup> 5.3

K 58.9 10.2 16.5 10.8 6.4 7.7 4.5

- 52.8 6.4 16.6 10.85 6.8 5.5

17 May 0915 R 61.6 18.2 - 17 11.3 8.8 6.7 14.6 9.7

K 67.5 18.2 17.1 11.3 9.1 6.55 14 8

- 62.7 13.1 17.3 11.2 9.7 6.8 10.7 6.8

2nd 1° big

19 May 0900 R 68.9 29.4 24.3 18.85 12 9.5 6.9 ~~21.5~~ 12.1 3

K 72.6 28.8 22 18.25 12.6 10.5 6.8 20.9 13.1 2

- 65.9 21.9 19.5 18.2 12.3 10 7 16.3 12 2

21 May 0900 R 69.9 38 25.7 18.6 12.5 10 6.85 28.7 18 66.5

K 75.5 40 24.6 19 12.6 10.6 6.8 28.5 15.5 68.5

- 70.6 32.3 25.2 19 12.85 10.7 6.9 23.3 12.8 60

23 May 1700 R 78.5 52.4 27.3 18.95 13 ~~7.3~~ 7.3 37.3 17.5 80

K 79.9 52.3 24.4 19.9 13 6.9 36.2 18.3 79.5

- 76 44.2 <sup>26</sup> ~~19.9~~ 19.7 13.4 7 30.6 13.8 7125 May 0830 R 75.9 61.5 25.8 19.8 13.6 10.8 7.25 <sup>42.6</sup> ~~20.6~~ 88.5K 77 60 26 20.9 13.6 11.1 7 <sup>41.9</sup> ~~21.2~~ 77

- 73 52.5 25 20.2 13.7 10.9 6.95 35.6 17 80.5

$$R = \text{Blood 1} = \text{Blue rump} = \frac{BP-LP}{64} \frac{R}{DG-LG(N)} = 1400$$

$$- = \text{Blood 2} = \text{white} = \frac{DG-R(N)}{LB} \frac{M}{O-K} = 1401$$

$$K = \text{Blood 3} = \text{Green} = \frac{DB-Mx}{K-W(N)} \frac{K}{M} = 1402$$

1 = 47, 44, 46.5

2 = 45, 42.5, 43.6

3 = 48, 48, 46.5

[I think these are underestimates]





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M. formicivorusAIHNHR

28 May 1000 BMK 82.9 103 25.3 75.8 21.3 14.1 11.2 7.2 20 51.7  
 RWR 76.1 105 24.3 75.6 20.6 14 10.7 7.5 15.8 52.6  
 74 94 22.9 67 21 14.3 11.7 6.9 17 44.6

11 June 1015-1030 Saw 2, maybe 3 babies.

KM = RWR = 1400 Gr butt = Bluebutt =

12 June 0720-0820: Saw 1400, 1401, 1402 but no dominance

14 June 1030 ♂ 100 (MR) is blind in the right eye. His head is scruffy. His right eye is dark + half closed (like the bird at KOUT) and he's very panicky about noises.

1030-1130: 1400 defeated 1402 in 4 different encounters

♀ W-Mv/M for sure = 568

21 June 0915 Acorn Count: 535

26 June set ambush 2 birds went in, what the hell.

27 June 1 hate ambushes. Caught the B ♀, ♀ 568

would not stop bleeding. Never again. Anyway

568 hemat = 61, 59 50.5 hemat = 53 (cap rec hem later-compar)

29 June 1650 Stopped by, saw J 1400; ♂ 100 not looking great - even his left eye seems dark.

4 July 1050 Saw 1401

6 July 0730-0940 Juv watch - saw all 3 kids. Saw 1 juv interaction - but got no bands. Some BKOK birds had crossed the road + were hanging out just below AI. Saw BKOK red butt baby. AI birds were hanging out in the tall tree at the edge of the woods NW of the snaggy tree NW of the granary. Also saw 1359

7 July 1402 + blu butt

6 Aug Ron reports ♂ (+ ♀) power struggle here. See his notes.





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M. Formicivorus

A1

HNHR

(6 Aug) Group Update & notes à la R. Munne. ♂♂ From UAZ at A1: 1140, 1222, 1225, 1027 in the granary. Also From UAZ were 1026, 1380, and maybe 1340. With the UAZ ♂♂ were 3 KOUT ♀♀: 1220, 1330, 1332. ♂ 100 is gone - the oldest bird (who was senescing). ♀ 505 still lives and was hanging out down from BTre w J 1402 (as was a NOBA ♂) No sign of ♀♀ 1319 or 568 or J 1401 & 1400.

25 Aug 0915-0945 (+ Maria spent longer here) Well folks, there has been a double turnover here. UAZ ♂♂ and KOUT ♀♀ are in control (and very excited about the nest hole) Seen: ♀♀ 1220, 1332, and J 1382 From KOUT (Maria said she saw a J becoming a ♀ - was this 1382?) ♂♂ 1140, 1222.

11 Sept 1111 Saw ♀ 1220 in the big lone tree on the top of the knoll tween A1 & LAZ. She was with several other birds (from A1?) Thus A1 has stolen this chunk from LAZ.

16 Sept 0815 while watching FAAR, ♀ 1319 (old H From A1) lands in the granary. FAAR response is lax. I then sat in the upper part of A1 where it borders FAAR and KOUT. There I saw: ♀ 505 (the old A1 breeder) ♂ 1380 (the baby From UAZ) was at this A1 no man's land. Presumably he's an A1 breeder. Also saw here ♂ DB-YLK and ♀ LBDBDBLB. ♀ 505 seems to be dominating this area. At 1000 I saw ♂ 1225 and 1140.

23 Sept 0845 Nancy P. saw ♂ 1340 (so he's here too)





M. FormicivorusA1HNHR

\*\* Group Update \* ♂ 100 died/disappeared 1 Aug  
 B♀ 505 was kicked out of A1 by KOUT ♀♀ during  
 this power struggle (not too surprising considering the  
 size of KOUT and their recent imperialistic advances  
 into A1 terr. ♀ 568 was last seen 870620 and  
 probably died before the PS (but maybe not): disappeared  
 870801  $\pm$  1 month. ♀ 1319 was incorrectly listed  
 as a ~~Helper~~ Breeder, she was a Helper (since 100 was alive).  
 Anyway, 505 and 1319 are still alive and living  
 on A1 periphery. J 1400 disappeared 870720  $\pm$  2 wks.  
 Ditto for 1401. J 1402 disappeared 870810  $\pm$  1 wk.  
 ♂ 100 was replaced by UA 2 ♂♂ 1140, 1222, 1225, 1340,  
 1027, J 1380 (presumably a ♂) and probably ♂ 1026  
 if he was still alive at 870810  $\pm$  1 week.  
Everything 870801  $\pm$  1 W

- 8 Oct 0740 Saw ♂ 1380 and sev other birds  
 0930-1030 Good ID on ♀ 1332, ♂ 1140. Partial  
 ID on ♀ 1330? ( $\overline{MvW}$ ) and ♂ 1378? ( $\overline{MLB}$ )
- 20 Oct 1100-1200 Saw ♀ 1220, 1332, 1330, ♂ 1140, 1027  
 Birds went to hole repeatedly, in groups - but never  
 with food (once saw 6 birds there)
- 8 Nov 1130-1245 Saw 1222, 1340, 1220, 1330, 1332, and  
 ♂  $\overline{DB/W}^M$  (could've been 1222)
- 12 Nov 0915  $\overline{OM}^{1220} \overline{LB/Y} = 1026?$
- \* Group Update \* ♀ 568 died from being bled at ambush (probably)  
 last seen 870627, not seen 870806, dis 870701  $\pm$



3000

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M. Formicivorus

AI

HNHR

\* Group Update \*

505 moved to Big T 870801  $\pm$  1 w

1319 " 870801  $\pm$  1 w

71400 " "

71401 " "

1402 last seen 870806, not seen 870916, disap 870826  $\pm$  2 w

5 Jan 1988 Acorn Count: pretty rough count: @ 7000





Balanosphyra formicivoraHastings Reservation

(6 Aug) a complete turnover of the Arnold 1 birds.

② A large group of males from UA2 has taken over the A1 granary. This included (minimally) ♂1140, ♂1222, ♂1225, and ♂1027.

All 4 of these birds were seen well and repeatedly in the A1 granary, wakaing, chasing intruders, etc.

Three other UA2 birds were also seen briefly,

could have  
Juv. 1402

\* ♂1340 Blk-wht(w)/M, ♂1026 LGreen/LPink, and Juvenile (♂?) 1380 <sup>BLK-LPink/Black</sup> M / Red-DBLue.

③ With the UA2 ♂<sup>was</sup> a group of 3 ♀♀ from Keep Out. ♀1220, ♀1330, ♀1332. All 3 seen well and repeatedly in the A1 granary.

④ ♂100 (sob!) appears to be gone. No sign of him at A1 or anywhere in the vicinity. ♀505 <sup>Wht/LPink</sup> Wht/LPink however, still lives. She was hanging out well North of the A1 granary (downhill side of Big Tree) with Juv 1402 <sup>DBLue-mauve</sup> Blk-wht(w)/M <sup>Black</sup>. No evidence of any other A1 birds around, although a ♂ na without bands was hanging out with ♀505 and J1402.

Apparently, ♀505 was evicted by the KO ♀♀ after the death of ♂100 and the ensuing power struggle. No idea what has become of ♀♀ 568 + 1319 and Juv. 1400 + 1401.

7 Aug Watched at CV Grande 0600-0900, looking for Juv. dominance interactions, with no luck: the juvies seldom perched together anywhere, and when they did, I saw no interactions. They also spent quite a bit of





Balanosphyra formicivoraHastings Reservation

(7 Aug) time sapsucking in the dense live oaks on either side of ~~CV~~ Carmel Valley Rd. near the CV canyon gate, which didn't help matters very much either. Good census, however: ♂837, ♀1042, ♂1081, ♂1079, ♀1284, ♂1285 all seen well, plus 4 surviving juveniles; 1430, 1432, 1433, 1434. No sign of ♂943, ♀1040, J1431. I suspect that all 3 are gone.

10:0930-1030 at Y and the Blomquist Knoll, a mini power-struggle in progress: Two ♂♂ from Hay-Blom, ♂1301 <sup>Red/LB-cin</sup> LP-k-Red/or and ♂1303 <sup>BP-k-wht(N)/wht</sup> " / " setting up shop on the Knoll with ♀1350 of Y (<sup>Obn-BP-k(N)/mauve-Obn</sup> M/LBlue). These 3 birds wakaed together frequently, while exploring the old fallen Knoll granary and the roost hole in the Blue Oak. This same sort of thing happened in fall of 1981 (see Knoll Set notes + Y notes)

At Y proper (in locusts by lower barn) were ♀675 <sup>Grn-wht/M</sup> " / <sup>Obn</sup> DObn, ♂1150 Red-Blk/M, and J1428 <sup>M/mauve</sup> PBlue-wht(N) / " (All 3 took dog food from the feeder). No sign of ♂1376, who is probably gone. J1428 also "visited" the Knoll birds briefly, but appeared to be chased by the Hay-Blom ♂♂.

8 Aug Checked out the peripheral action at the A1 PowerStruggle 0600-0800: At Big Tree, 2 A1 ♀♀ (♀505, ♀1319) wakaing with 3 KOut ♂♂ (♂1016, 1127, 1219). Over ~~so~~ toward Fanny Arnold, ♀834, ♂835, ♂1023 were very active, but no sign of the 3 ♀ helpers (1024, 1249, 1250) who may have dispersed.





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M. FormicivorusBig TreeH/VHR

\*Group Update\* A1 ♀♀ kicked out of A1 by KOUT ♀♀  
 ♀505 moved to Big T 870801 ± 1 W to become breeder  
 ♀1319 " " "

♀1400

"

"

11401

"

"

[242 ♂ seen with Big T  
 1236 on 871108]

27 Oct 0900-1000 Well, well - the A1 castaways are here: ♀1319,  
 ♀505, J ♀1400, and J (♂?) 1401. They are all  
 busy storing in the dead tree in the woods 50m  
 downhill from the fallen BT granary. The juvs are  
 probably ♀♀, but I won't commit yet. There could be  
 > 4 birds here.

14 Dec Acorn Count: 150





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M. Formicivorus

Keep Out

\* the ~~new~~ ARSW acorns are  
really KONT's!

HNHR

- 9 Jan 0930 Acorn Count: Gran by Fence 1048 } 1183  
Burned live oak 135 }
- 24 Feb 1200 Acorn Count: Gran(Fence) ~~1048~~ 1110 } 1143  
Burn 33 }
- 6 April 1330 Bird in 86 hole. Returned later - bird  
still there - didn't want to flush. Hole empty but  
looking ready - and deep - can't reach bottom - and  
thick - I sawed only one side of a new door.
- 7 April 1415 very stubborn bird in hole. No eggs. Made the  
2<sup>nd</sup> of 3 cuts.
- 8 April Finished cutting the door, but alas, now I fear  
they're no longer sold on this hole. Today a bird  
seemed to flush from the back of the tree.  
Yesterday too.
- 9 April 1030 Climbed. Empty. I fear the worst!
- 10 April 1215 Bird in hole on arrival. Yea! Nest still empty  
though. Can I trust the peeper - its deep!
- 11 April 1230 No eggs
- 12 April 1430 Its about time! 1<sup>st</sup> egg! Labeled #1. Bird in hole.
- 13 April 1600 2<sup>nd</sup> egg! #2 wt. 5.42. Well, I blew it on  
the first egg - I was going to weigh it 2 day, but it  
had a big shit glob stuck to it. Shoulda done it yesterday.
- 14 April 1400 Egg #3 weighed ~~5.39~~ 5.4. Added Plge egg. Cyndy  
incubator watch.
- 15 April 1500 Egg #4 weighed 4.78? Pesola Fucked.





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M. Formicivorus

KOUT

HVHR

21 April

Egg #

L

W

Date Laid

1

25.2

19.85

4-12

2

24.7

19.95

4-13

3

24.95

19.9

4-14

4

26.1

18.85

4-15

Plg

25.0

19.6

4-11

24 April

0900

Checked eggs. All look OK. None pipped.

25 April

1100

26 April

0730

RL

LL

egg 3 pipping.

5.18

4.98

very agitated adults.

egg 1

egg 2

3

4

27 April

0715

~~7.79~~~~7.12~~~~7.39~~~~4.65~~

6.79

6.12

6.39

3.65

28 April

0745

9.9

9.4

9.48

3.92

29 April

0800

13.75

12.7

12.9

5.20

30 April

0800

15.8

13.6

15.5

6.8

1 May

0715

19.3

17.0

19.9

7.1

2 May

0800

Mauve 23.0

Blue 20.4

white 23.5

6.5

egg present

3 May

0800

26.8

24.1

26.9

6.0

"

4 May

0715

31.4

28.0

33.4

gone

"

TC

12.0

10.6

12.6

TN

8.2

7.25

8.5

5 May

0715

38.8

34.3

40.25

TC

13.2

11.7

13.3

TN

8.8

8.1

9.3

Gonys

4.7

4.5

5.1

Tail

2.5

2.2

2.5





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M. formicivorus

KOUT Nest Record

H/VHR

12 April 1430 1<sup>st</sup> egg laid

15 ~~24~~ April 1500 4<sup>th</sup> egg laid (Plge egg added)

26 April 0730 2 hatchlings + pipping egg + eggs

27 April 0715 4 kids





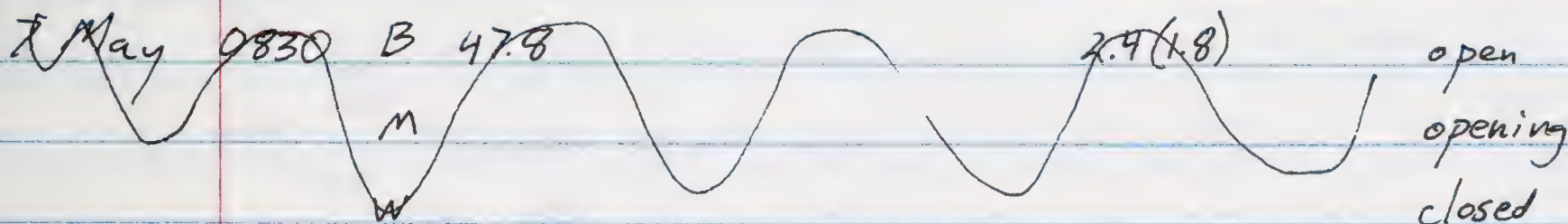
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M. Formicivorus

KOUT

HNHR

Time	Bird	WT	TC	TN	G	BW	1°	
6 May	B	43.7	12.5	8.8	4.9	6.5		no egg
0830	M	45.8	(13.5)	(4.4) <sup>?</sup>	5.4	6.9		eyes opening
	W	<del>50.8</del> 50.8	14.2	10	5.6	7.2		pocked Tail



Time	Bird	WT	1°	1° sh.	TC	TN	G	BW	Tail	TS	com
7 May	B	47.8	head 34.8	1.8	13.3	9.2	5.7	6.5			open
	M	53	36.9	2.3	inj	9.9	5.9	6.9			opening
	W	54.4	38.1	1.2	14.9	10.7	5.9	6.9			closed

8 May	B	51.2	2.75	head 36.6	14.2	9.9	6.1	6.6	3	
	M	57.3	4.85	38	inj	10.4	6.4	6.9	3	
	W	58.3	2.7	39.2	inj	11	6.1	7	3.2	

G→Feet chord

11 May	B	62.5	14.3		16.1	11.3	8.55	7.1	11.3	5.5
	M	68.2	17.8		17.5	12.3	9.5	7	12.5	10.2
	W	70.6	15.9		17.3	12.7	9.35	7.2	12.5	7.7 (red head)

13 May	B	66.2	23.1	20.5	17.4	12.2	9.5	6.95	18	10	52
	M	73	29.35	23.3	18.75	13.5	10.4	7.1	19.7	10.3	58.5
	W	73.9	26.7	21.9	18.7	13.8	10	7.2	19.3	9.8	57

15 May	B	75.8	35.4	22.6	18.6	13.1	9.4	6.8	25.1	14.2	63
	M	82.2	41.05	28.6	20	14.1	11	6.8	27	15.5	69.5
	W	83.8	37.5	25.7	20.3	14.4	10.6	7.2	26.1	13.7	68

17 May	B	78.1	47.2	24.2	19.7	13.6	10	7	31.5	16	74
	M	85.9	53.9	25	21.3	14.1	11.6	7.2	33.3	18.1	81
	W	87.7	50.3	25.6	21.3	15.2	11.5	7.5	32.5	11.8	80

shuffled





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M. formicivorusKOUTHNHR

(17 May)

B = 1381 M = 1383 W = 1382

42.5

38.5, —

39, 39.5

hematocrit

As an experiment, I just ran 1383's 5 min longer = 36.5

" 5 " = 35.5

19 May

Time

Bird	Wt	chr	1°	1's	TC	TN	G	BW	T	TS	2 <sup>or</sup> 3	mark
MN	85.2	88.5	60	26.4	22.5	15.7	12	7.3	37.8	14.6	3	gr chest + 1°
OYR	74.6	84.5	58.1	26.1	20.3	14	10.4	7.1	37	17.4	3	gr rump
mm	83	91	64.2	26.8	22.2	14.8	12	6.9	38.2	16.35	3	gr forehead blue rump

21 May

0800 MM	81	101	50.8	22.7	22.6	15.75	12.2	7.1	44.9	15.4
MN	84	98	45.9	23.6	23	16.2	12.5	7.5	43.3	12.9
OYR	73	94	39.3	28.4	21	14.4	11.4	7.5	43.0	20

2 June

0800-1000 Unsuccessful juv down watch — did see:

♀  $\frac{LR}{M/GWN}$  1332

♂ YB 1127

J  $\frac{YR}{B}$  1381♀  $\frac{MLB-Mv}{?}$ ♂  $\frac{YK/noba}{MK}$  706♀ RWMS/KO at another hole 1330♂  $\frac{R\text{eye dark (blind?)}}{L\text{eye lite (OK?)}}$ 

wt ch TC TN BW T hemat

20 June

0530 J 1382 74 137 27.1 19.35 8.2 80 58, 58

Ug, lets not talk about it. Catch 7 birds, only 1 kid.

Philip gets 2 radios on, but I fuck up and drop the 3<sup>rd</sup> bird before he gets the radio on. Damn.

21 June

0930 Acorn Count: 270



$$\begin{array}{r} 1183 \\ 381 \\ \hline 1564 \end{array}$$

1987

M. Stanback

M. FormicivorusKOUTHNHR

1 July Roost: set 2 ambushes (hi hole + horiz hole) and plug up other horiz holes. Birds bump their heads on plugs, peck out pins, etc; then 2 GHOWLS show up and completely fuck up everything.

12 July 0520 well, Philip set ambush last nite + only 2 birds go in. I decide the chances that they're both babies is too low, so I don't go up w him to bleed. Wrongo - it's the babies! ~~1381~~ 1381 + 1382.  
<sup>ut</sup> <sup>ch</sup> <sup>TC</sup> <sup>TN</sup> <sup>BW</sup> <sup>T</sup>  
 1381 70.5 143 (?) 21.9 18.4 7.95  
 1382 77 142 (?) 27.95 20.55 8.25 81.15

6 Aug Ron reports KOUT ♀♀ at A1 power struggle: 1220, 1330, 1332

25 Aug ~~0930 1220~~ ♀♀ 1220, 1332 are in residence at A1. Maria saw J 1382 here as well. Could it be that J 1382 is a breeder ♀ now. Maria did see a NOID J that was turning into a ♀.

0930 I saw a bird fly from KOUT to BKOK.

Oh yes, at least 2 NOBA ♀♀s now control KOUT.

11 Sept 0800 (still?) a bit of chasing here. <sup>seen on ridge between KOUT, A1, + FAAR</sup>

23 Sept 0830 - 0850 Nancy watched nest tree - nothing.

\*\* \*Group Update\* ♀ 739 disappeared 870720 ± wks.

Replaced by NOBA ♀♀s: ———, ———. ♀ 1220, 1330,

1332 and Juv 1382 (presumably a ♀) have moved to

A1; whether in response to these NOBA ♀♀ or to

a "perceived" opening at A1 I don't know. Call

departure date 870801. Even though <sup>739</sup> ~~she~~ hasn't been



31  
 4970  
 475  
 121  
 146  
 120  
 110  
~~4450~~  
 300  
 63.2

1450

*[Handwritten signature]*

1987 M. Stanback

6

## M. Formicivorus

KOUT

HNHR

seen since 870620, we would have noticed an influx of birds.

20 Oct ~~0740~~ 0740-0930 Census: NOBA ♀, 1127, 1221. J 1382 is a Male, as is J 1383. Maybe saw 1016. Not a great census. At one point a starling went to the 87 hole and was immo chased by ACW. Several times birds seemed to fly to the high roost hole, but my angle was bad. I looked the hole afterward - nothing. 1010-1045 Watched hole. Nothing. I will assume no nest. C'mon, these are new ♀♀, and it's 20 Oct.

\* Group Update \* NOBA ♀ 5281 moved in 870801 ± 1w. ♀ 5282 also became breeder 870801 ± 1w. All ♂ H became breeders. All ♀ H became breeders A1 870801

14 Dec Acorn Count: Main gran: 4970

burned live oak : 475

fallen limb from ↑ (still viable) : 191

total = 6312

→ skinny tree w cut off stump : 146

(+ ARSW?) = 1450

dead limb (hi & vertical towards ARSW) : 120

total ? 7762

" (hi & vert) towards mystery limb : 110

mystery limb (caught in fork) ARSW? 1450

tree behind : 300

A little later I stopped to ID some birds: saw 1127, 1382, 1219, 1381, ♂  $\frac{BYN}{K}$ , a NOBA ♀ twice - one time she was chased by a banded bird. Saw NOBA a third time, I think. Problem is, I'm pretty sure I saw ♀ 739  $\frac{LB/Y}{n}$ . If she's alive, this explains why 1381 stayed.

\*\* New Update: 739 never died. NOBA ♀♀'s only seen on periphery. All helper ♂♂ reinstated as helpers.





1987

M. Stanback

M. FormicivorusArnold SchwartzHNHR

24 Feb 1215 Acorn Count (1 missed 'em in January)

Arn Schutz nest tree : 63	} <u>381</u> total
Leaning log down hill : 318	

this limb (one end is on the ground) may be a KOUT gran

6 April 1330 Bird in 86 hole (but is it a Lamb bird?)

There was a Coopers hawk.

9 April 1045 Climbed 86 hole - empty. New hole started several feet below.

10 April 1230 helloed hole - no response

20 April 1430 86 hole w fresh chips. 310 acorns

27 April 0745 86 hole empty.

4 May 1000 4 rather fresh eggs, but whose nest is it?

5 May 0930 Bird Flushed from hole and Flew east (avoiding Lamb)

7 May Loretta reports ARSW bird near hole

12 May 0900 Hatch Day. 2 hatched (one of them being still attached to the egg - he was marked RW) The other was marked LL. They were not weighed because the ANTS were the worst I've ever experienced. They were so thick they were in my eyes & mouth. They were walking down my fingers to the babies & biting them. I set the blind up on the uphill side toward Lamb, since the ideal downhill spot was beside their granary.

13 May 0715 Damn, are they abandoning? no one in hole on arrival perfectly. Anyway LL weighed 4.0 & DEAD. The other baby (RW) weighed 4.1 & wasn't looking great. Only 1 egg remaining and it was pipping and peeping (there were 2 yesterday) Ants?

Kept dead one

these are KOUT's acorns!



14 May 1200 Failed. Katy had blind too close ?

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M. FormicivorusARSWHVHR

14 May 1200 Climbed tree & heard no babies. (Ants were bothering me too much to open it) Katy reports very little activity here. Was the blind too close? Failure

28 May pm-am hello. Nothing

30 May

" "

12 June 0900 Saw  $\frac{LR}{LR} / \frac{LR}{LR} = 624$ , sort of behind KOUT, this makes me think that the mystery granary is indeed, ARSW's

25 June 1015 Cruised by, saw no one.

11 Sept 0800 Saw 624, 720, 1279, and 1280 all in a few minutes! They are already storing (in a 'new' limb that sticks out to the W)

23 Sept 0800-0830 Nancy watched nest tree - no interest in nest holes - just storing. Saw ♂ 624.

8 Oct The mystery granary between KOUT & ARSW is Full - I wonder who owns it?

14 Dec Acorn Count: 730 + 50 in dead limb in tree to West toward the P.O. patch. See KOUT count for mystery limb





1987 M. Stanback

M. formicivorus

Lambert

HNHR

9 Jan

Acorn Count : Standing snag on hill 77  
log on hill  $978 + 65 = 1043$   
live tree 106  
Total 1126

Saw  $\frac{BY?}{NK} \checkmark$  (♂  $\frac{E}{E}$ )  $\rightarrow$  (1309)

24 Feb

1230 Acorn Count : Standing snag 5  
log on hill 700 } 733  
live tree 33

27 Mar Katy reports "no" acorns left. I find this hard to swallow. They have, however, probably been reduced to deeply stored ones.

1 April 0730 Saw 1309? ( $\overline{M(K?)}$ ) and a NOBA ♂

6 April Acorn count 220 in log. Did I see a bird flush from the area at the 86 nest.

20 April 1330-1400 Watched. Saw no one.

5 May 0945 still not sure whether the vest at ARSW might not be Lamb's. I climbed the 2 holes that are cut open in the 86 tree (low empty, high w mice). There was also an empty but rather nice uncut hole I examined (The reason I climbed these holes is that I saw a bird flush suspiciously from this tree).

Lamb &  
abd terr &  
went home  
to WA 2

30 May 1030 Helloed holes. Nothing.

25 Aug 1020 Cruised by. Saw no one.

11 Sept 0810 "

16 Sept 0935 " But I did hear pecking (is that LAMB further up?)



$$\begin{array}{r}
 21 \\
 335 \\
 800 \\
 840 \\
 175 \\
 3350 \\
 1700 \\
 \hline
 4260
 \end{array}$$

M. FormicivorusLAMBHNLHR

27 Oct 0845 ♂  $\frac{Y-DB \text{ (miss band)}}{DB-Y / M} = 762$  from A1 (check 1983 on ward)

Live oak here has acorns (lots).

12 Nov 0930-1130 Saw ♀♀ 916, 1028. Saw ♂ that looked like W-DB / lost band (or M). Another time I saw ♂ w M on left. Another time I saw K w M. So did I see 679 and/or 1309?

\* Group Update \* ♂ 762 (disap from A1 Dec 83) seen at Lamb 871027. A breeder I suppose - don't know how long he's been there - pretty shitty censuses last yr.

14 Dec Acorn Count: big downed gran toward pond : 335  
nest tree by fence 800

big standing snag on hill 840  
downed limb under nest tree 175

main downed gran : long ground limb 350  
" the rest 1700

(the pond up here has filled - and is frozen) total 4200



bat hole

ht 8 m

ang 30 from horiz

dir 363

CNH 60 small = 19.1

above star

9 m ~~ht~~

valley

slp 25

CNH 135 42.9

ang 70

C' BH 365 116

dir 109

asp 117

knot cut

8.4 m hi

ang 27

lead?

dir 179

CNH 115 = 36.5

1987 M. Stanback

M. Formicivorus

Fanny Arnold

HNR

9 Jan 1000 Acorn Count: 233 (lotsa empty holes) WDK

24 Feb 1130 Acorn Count: Well, I'm not sure where Walt counted, but here's what I got

Nest tree w strings : 81

Burned 15' stump beside : 95

Dead snag on E side gulley : 611

Birds seen: LBW (1023)

♀ RTW. (834)

1 April 0800 Saw ♂ 1023

6 April Might have seen a bird flush from the big oak to the S of the 86 nest tree (a high hole)

7 April 0925 ♂ looked into hole near where I "saw" the bird flush yesterday (maybe same hole) Anyway it's a nice one. See picture on back →

This is a p.o. tree 30 m S of 86 nest tree.

Hey, there are birds near the 86 hole. Starlings copulating and going into the hole (cut out) below the hole I saw the ♂ look into. 2 birds looked in 86

nest tree (holes at top) See picture on back for view from E side of ravine. Mate guarding!

But also weirdness - there was a NOBA ♂ being chased around at one point!

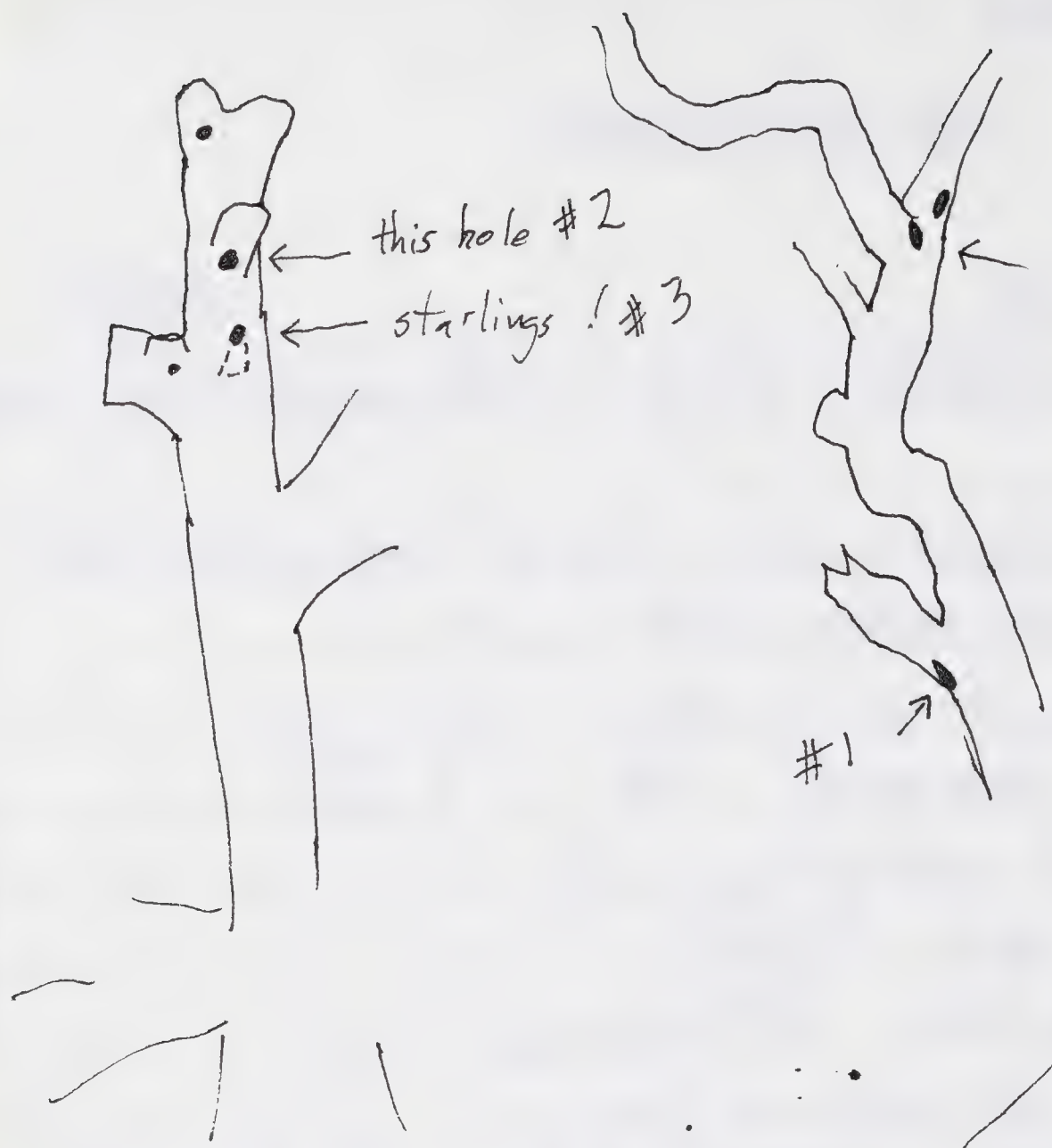
10 April 1145 There's a nice new east facing hole in the 86 nest tree.

(1024)

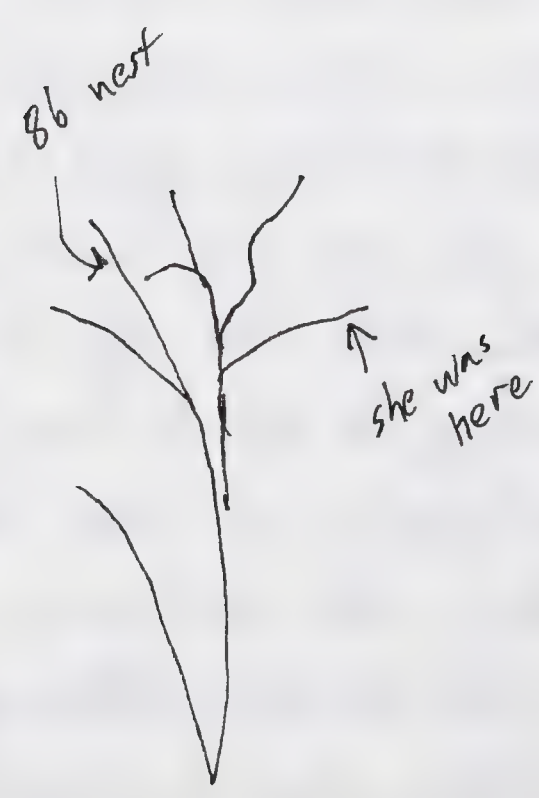
(1249)

14 April 1340-1400 No hole action. Saw ♀♀, OR & OLB M. No ♂♂ with em. Just them in gran.





BWN M  
Map



MWB

1987

M. Stanback

2

M. FormicivorusFAARHNHR

- 15 April 1400 - 1445 Oh Fanny, lets not. Not there. ♀ 834 was at (r seemed to go into) a hole at the end of a snag sticking out to the NNW of the 86 nest tree. But there was also a ♀ sitting near the 86 hole, which looks very nice. A couple new hole starts, but none too promising. Starling still in that hole.
- 20 April 1430 - 1515 Watched for nestiness - birds didn't show up for a long time. A ♀ that looked like <sup>OKO</sup>~~mkw~~ was at the 86 hole for awhile, then went & sat by the nearby missing <sup>door</sup> hole.
- 22 April 0710 - 0735 Watched for nestiness. No obvious m.g., but I think its a 1 ♂ group. Lotsa Flycatching. However, at one point a bird was chased from hole #1 (see pic on back of page 1)
- 23 April 0800 As I watch, ~~Blue~~ breeder ♀ goes to hole #2, 2 ♂♂ then join her. Aha! Climb - its empty, and has feces in the bottom. (A wierd climb Freestyle) I clean the starling nest out of hole #3 in hopes they'll use it. Starling babies (5) removed for lab work.
- 24 April 0815 Saw bird go to same hole.
- 25 April 0830 "
- 27 April set string
- 28 April 1030 spent much too long resetting string. Fresh chips!
- 29 April 0810 Bird at hole
- 1 May 0900 2 eggs, numbered 1-2. Cut door.
- "Incub Watch" 0935 - 1035. At 1000<sup>00</sup> bird (♀?) into hole. 1022. Bird (♂?) to hole, look in - Flew away.



$$\begin{array}{r}
 43 \\
 3 \overline{) 124} \\
 \underline{9} \phantom{0} \\
 34 \\
 \underline{30} \\
 4
 \end{array}$$

$$\begin{array}{r}
 118 \\
 3 \overline{) 354} \\
 \underline{9} \phantom{0} \\
 26 \\
 \underline{24} \\
 2
 \end{array}$$

1987 M. Stanback

3

## M. Formicivorus

FAAR

H/VHR

- (1 May) 1026~~30~~ Bird in hole flew out, sat nearby. ( $\therefore$  26 min of incub - 30 sec head out)  
(There's a starling nest ripe for picking tween FAAR & A1)
- 2 May 0930 3<sup>rd</sup> egg numbered. Bird in hole on arrival
- 5 May 0845 Only 2 eggs in hole!
- 12 May 0930 Empty. Cleared starling starts out of the 2 nearby holes.
- 19 May 1030 Found new nest. Ug! Its in the hole at the end of the snag in the 86 tree.
- 23 May 1500 Cut open hole. Empty!
- 29 May 1100 - 1120 Spied awhile. No one at new hole - or any hole.
- 30 May "
- 10 June 1030 Bird at hole (the new one I cut out)
- 11 June 0800 Checked hole ... empty except for a bat.
- 21 June 0945 ? sat outside bat hole, then flew away!  
0950 Acorn Count: 50 in E granary!
- 4 July 0800 Nest hole: dir 109, asp 117, slp ang 25, CBH 365  
hol ht 9m, CNH 135, ang 70, sp valley, TA, LA, ST  
Bat hole: dir 363, asp, slp ang, CBH, hol ht 8m  
CNH 60, ang 30, sp, TA, LD (~~LD~~), ~~ST~~  
this is 86 nest tree.
- Knot hole w cut facing UA2 dir 179, asp 117, slp ang 25, <sup>E</sup>CBH 365, <sub>H</sub>  
hol ht 8.4, CNH 115, ang 27, sp vall, TA, L, ST
- 25 Aug am ( $\frac{1}{2}$  hr w ~~h~~) saw 834, 835, maybe 1023,  
and either 1024 or 1250 ( $\frac{0}{1}$ )
- 11 Sept 0820-0845. Watched & saw 843, 835, 1023, 1249.  
They're shopping for a nest hole. A ♂ went into the



①

$$\begin{array}{r} 50 \\ 392 \\ 500 \\ 2210 \\ \hline 2970 \\ \hline 4122 \end{array}$$

1987 M. Stanback

4

M. Formicivorus

FAAR

HNHR

(11 Sept) 87a nest hole for 5 mins and several other birds looked in. A ♀ looked into the starling hole below it and several birds went to the snag hole below & to the left of it. A pair of starlings is hanging out in the broken limb hole nearby (where I guess the spring starling nest was) and had a few run ins w the ACWs

16 Sept 0740-0755 Watched 87 hole + environs for nestiness. None! changed positions. ♀ 1319 from A1 (old H) landed in granary. Lax response by FAAR birds. Also saw ♂ 835. Saw ♀ 834, ♂ 1023, ♀ 1249.

23 Sept 0800-0830 Watched for 'nestiness' - none. Just storing. Saw ♀ 834

5 Oct 1050-1100 Watched holes At 1055 bird landed at 87 nest, sat outside @ 30 sec, went in. About 30 sec later a bird came out.

1130 Climbed - empty, but nice fresh chips.

8 Oct 1000 Good ID of ♀ 1024 up rear no mans land

14 Dec Acorn Count: P.O. tree N along fence: 50

burned: 392

86 nest 500

total

87 nest 210

main: 2970

Saw ♀  $\frac{KW/W}{M} = 1249$  (?) ♀  $\frac{WMv/M}{M} = 834$  (?)



400  
400  
6000

1987 M. Stanback

M. Formicivorus

Upper Arnold 2

HNHR

9 Jan 1000 Acorn Count: Nest tree: 1275 } 3832  
"2" tree: 2557 }

WPK

24 Feb 1100 Acorn Count

Nest tree: 1422

Snag: 2740

total 4162

} total 4162

+ 300 From side  
= 4462

Birds seen: at least (4)

♂ MrY (1222)

♂ MWB

♂ e

(1222)

♂ B.W(N)M (1340)

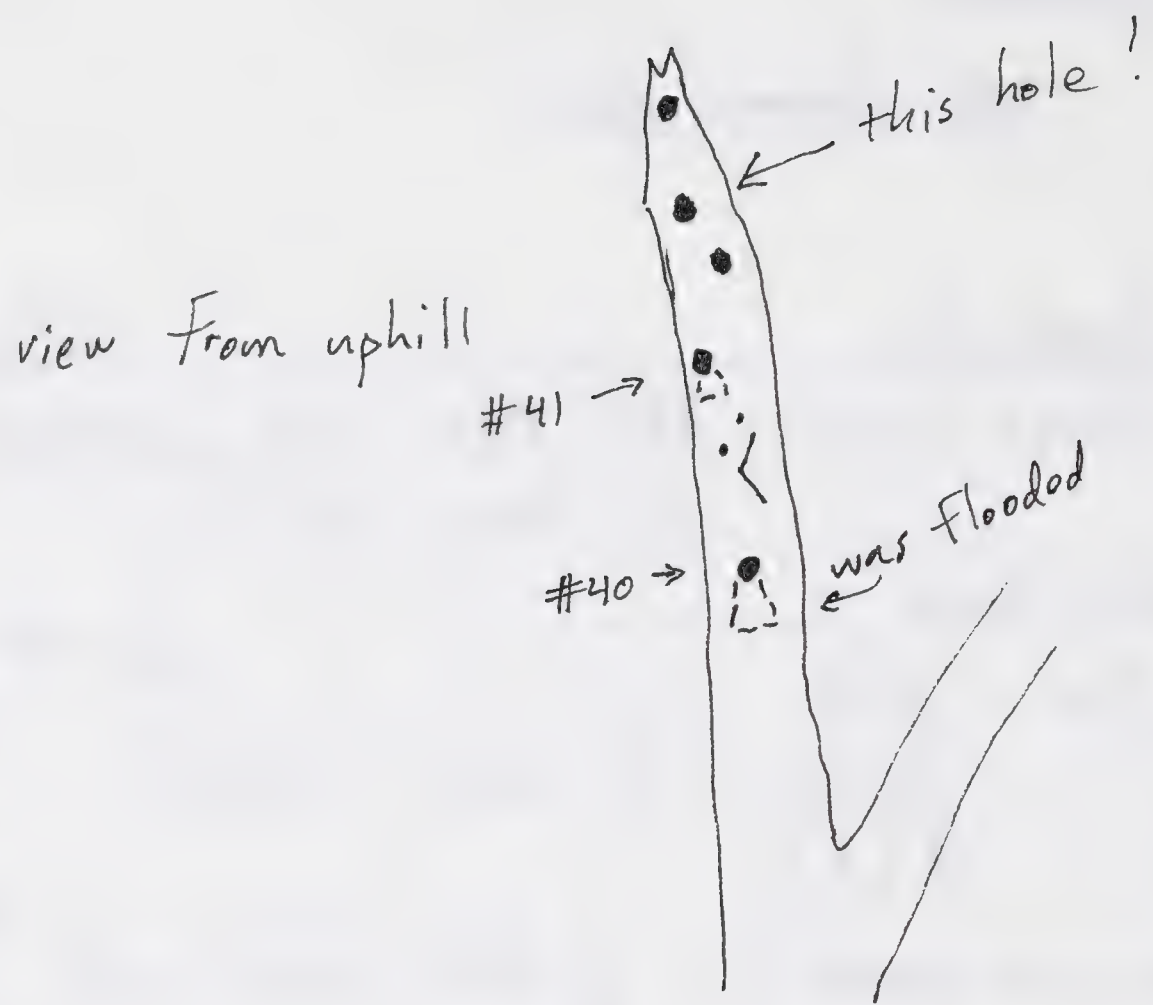
1 April 0800 - 0900 Looking for nestiness - no luck, but not a very good watch either. Starlings.

6 April @ 1400. Cruised by. No hole action though I'm convinced they must have a nest! I found another Acorn limb w lots acorns on a live tree to SE of dead grove.

7 April 0915 Flushed (?) a bird from 86b hole (I think) Set blind - will return.

1015 Start blind watch. Stop 1105. Well, a ♂ looked in the hole pictured on back and about 1/2 hr later, a ♀ looked in. No one showed in forest in 86b hole. The interested hole is in 86a limb, → not yet cut open. Climb. Its very rotten! I made a peep hole through the back of the limb (+ 1 side of a door) and didn't see any eggs (not a good view), but the hole looked ready on the inside. I checked hole #40 and found





1987

M. Stanback

2

M. Formicivorus

MAZ

HNHR

(7 April) that it had about 6" of water inside. I ~~cleaned~~ it out (I hope it wasn't their water Fountain!) I tried to peep in #41 but couldn't. Maybe next time. I then went & checked 86b hole in the live granary. Nice condition, with a couple semi-fresh turds.

9 April 0900 - 0930 Lots flycatching here<sup>run</sup> (ACW, starling, scrub jay) Hear oriole too. Some intruders (or ♂♂ competition??) There are at least 6 birds here. I saw ACWs supplant & chase starlings 4 times. Lotsa activity, but no sign of nesting here at gran area. But... I saw birds in the vicinity of 85b nest, so I'll move.

0835 - 0910 : at 85b, at 0845 a bird went to hole, but didn't look in. There were other birds around, so it was displayed and moved on. They do alot of flycatching from this tree. Scrub jays here too. Moved back to gran for a few minutes, now it's 0930. I'm back at 85b. No action. Climbed 85b nest. 2 eggs. Door not big enough so I had to make new one. Marked eggs w DAP.

RWR ♂

10 April 1130 3 eggs. Today's marked 3, yesterdays 1 & 2. A bird was in the hole (down) on arrival. Incubating? Needs a watch.

1240 - 1340 Nest watch. No one came. Left blind

11 April 1300 That kind of day. No 4th egg. Have I ruined them?

12 April 1300 Bird in hole. Stubborn. And 4 eggs. Measurements → (removed blind - I think incub has begun)





1987

M. Stanback

3

M. Formicivorus

UA 2

HNHR

(12 April)	Egg #	Date Laid	L	W
	1	8-9 April	25.7	19.1
	2	8-9 April	24.7	19.6
	3	10 April	25.4	18.9
	4	12 April	25.1	19.8

13 April 1500 Still 4 eggs - I'll assume clutch complete

14 April Fucking A. It's now a Fucking experimental Fucking group.

20 April 1400 Gluey thread on egg # 4.

21 April 0900 No sign of pipping yet.

22 April 0700

1630 Egg # 3 pipping.

23 April 0715 Eggs # 1 & 2 hatched. # 2 seems to have hatched first (but who cares) Egg # 3 has progressed very little. Egg # 4 pipping. I put a drop of blue on in # 4. Babies marked  
 $RL = 4.8 - 1 = 3.8 \text{ g}$  (bg = 1 g)

$LL = 4.0 \text{ g}$

The method I used for dying is as follows. With emery board, thin the shell at the apex of the pointy end. With rapidograph, poke tiny hole barely thru the shell. Touch 1 drop dye to this hole and allow capillary action to take dye into egg.

24 April 0800 Well, the dye didn't kill the chick - but it didn't mark it either (capillary action wasn't noticeable yesterday). And neither chick from yesterday was still marked. So today I put on lots of rapidograph ink. I'll assume the biggest babies are from yesterday am, and the smallest from # 4.





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4

M. Formicivorus

UAZ

HNHR

(24 April)	<del>time</del> time	RW	LW	RL	LL	
		egg # 2	1	4	3	
	0800	7.4	6.85	5.75	6.7	minus 1 g. bag
	0800	6.4	5.85	4.75	5.7	
25 April	0800	9.3	8.7	6.77	8.58	see Cyndy <sup>g. bag</sup> (subtracted)
26 April	0800	12.0	12.2	8.8	11.7	
28 April	0930	19.9	21.0	17.5	20.6	
29 April	0830	22.1	24.3	19.75	23.8	

RL

O

B = RW

S = LL

W

30 April	0830	21.8 (19.9)	24.2 (22.05)	25.4 (21.4)	26.7 (21.1)
1 May	0800	26.25	24.2 23.1	28.3	31.0
2 May	0845	29.25	19.0	33.8	34.75
3 May	0830	33.3		35.9	36.5

1°

1.1

3.2

2.1

TC

13.2

13.3

14.0

TN

9.3

9.2

10.0

BW

6.6

6.6

7.1

The 'new' runt is gone

4 May	0800	37.1	41.75	42.4
	1 <sup>st</sup> 1°	2.5	4.5	3.3
	6 <sup>th</sup> 1°	1.2	3.6	2.5
	TC	13.9	14.25	15.0
	TN	9.75	10.2	10.1
	Gongs	4.8	(6.7 ?)	6.0
	BW	7.0	(6.7 ?)	7.2
	Tail	1.5	(2.0 or 2.8)	2.5





1987 M. Stanback

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M. Formicivorus

	<u>UAZ</u>			<u>HNHR</u>
5 May	0800	O	W	S
	wt	45.0	48.6	49.75
	1° (1st, 6th)	4.2, 2.4	4.9, 4.9	6.0, 5.8
	tail	2.75	3.9	4.4
	TC	14.8	16.1	14.95
	TN	10.1	10.4	10.6
	Gonys	5.9	6.4	5.9
	BW	6.6	7.0	6.9
6 May	0915 wt	51.4	56.3	55.1
	1° (1, 6)	4.8, 4.15	6.4, 7.2	6.8, 8.8
	head	41	40.2	38.9
	TC	15.8	injury	15.8
	TN	11	11.3	11.3
	Gonys	6.2	7.2	6.8
	BW	7.2	7.2	6.8
	BH	6	6.1	6.4
	Tail	4.5	6.3	6.95
7 May	0915	55.1	58.4	58.7
		6.1, 6.9	7.3, 10.9	7.6, 12.45
		40.9	41.3	40
		16.55	17.2	16.5
		11.6	11.9	11.1
		6.9	7.8	7.2
		7.05	7.2	6.9
		5.7	6.1	6.1
		6.4	9.3	9.8

all w  
eyes  
open



84	82	76.5
29.8	28.2	29.5
56.5	56.6	51.7
21.1	22.4	21.5
15.1	15.1	15.05
11.9	12.3	11.5
7.45	7.6	7.65
15.8	21.7	<del>118</del> .3
36.7	36.1	35.9
79.5	84.7	82.9
.5	w	0

17 May 1015

MLA  
 81.3  
 67  
 30.7  
 21.8  
 15.5  
 12.2  
 7.7  
 16.2  
 41.8

BMM  
 88.4  
 66  
 27.7  
 23  
 15.6  
 13.3  
 7.6  
 20.6  
 41.5

KPK  
 86.8  
 63  
 31.2  
 22.9  
 15.7  
 12.2  
 7.9  
 15.8  
 42.5  
 4

42.5 = blood  
 43.5  
 43

2 = 43  
 3 = 42, 41

1987

M. Stanback

6

M. FormicivorusUAZHNHR

5 May Wt 1" head TC TN Gon BW BH Tail Bird Time

45 2.4 14.8 10.1 5.9 6.6 2.75 O 0800

48.6 4.9 16.1 10.4 6.4 7.0 3.9 W 0800

49.75 5.8 14.95 10.6 5.9 6.9 4.4 S 0800

6 May 51.4 4.15 41 15.8 11 6.2 7.2 6 4.5 O 0915

56.3 7.2 40.2 - 11.3 7.2 7.2 6.1 6.3 W 0915

55.1 8.8 38.9 15.8 11.3 6.8 6.8 6.4 6.95 S 0915

7 May 55.1 6.9 40.9 <sup>16.55</sup>~~16.5~~ 11.6 6.9 7.05 5.7 6.4 O 0915

58.4 10.9 41.3 17.2 11.9 7.8 7.2 6.1 9.3 W 0915

58.7 12.45 40 16.5 11.1 7.2 6.9 6.1 9.8 S 0915

8 May 59.9 11.4 42.5 17.3 12.2 <sup>7.4</sup>(9.8) 7.2 5.9 9.6 O 0930

63.7 15.2 41.8 <sup>crick</sup>- 12.4 (10.5) 7.3 6.1 12.2 W 0930

61.4 16.9 40.9 11.9 12 <sup>7.4</sup>(9.3) 7 6.1 13.6 S 0930

Time Bird Wt 1" 1" sh TC TN G BW Tail TS chor

11 May 0945 O 70.7 28.2 26.2 19.4 13.7 10.9 7.5 21.4 13.5

W 73.5 32.5 26.5 20.3 13.8 10.4 7.25 <sup>21</sup>25.5 15.5

S 73.1 33.4 24.7 19.2 13.6 9.9 7.25 23.9 14.4

13 May 0940 O 78 40.3 31.4 20.6 14.8 11.6 7.55 29.2 16.5 66.5

W 80.5 44.2 31.5 21.4 14.8 11.95 7.55 29.2 18 71.5

S 78 44.2 26.5 20.2 14.3 11 7.5 31 17.2 72

15 May 1015 O <sup>82.9</sup>~~76.5~~ 51.7 29.5 21.5 15.05 11.5 7.65 35.9 18.3 76.5

W 84.7 56.6 ~~28.2~~ 22.4 15.1 12.3 7.6 36.1 21.7 82

S 79.5 56.5 29.8 21.1 15.1 11.9 7.45 36.7 15.8 84

Banded O = blood 3 W = blood 2 S = blood 1 = v bled.

1380

1379

1378

hematocrit 42, 41

43

43.5, 43.5, 43





1987

M. Stanback

7

M. FormicivorusUAZHNHR

17 May

1015 <sup>MLE</sup>

81.3 67 30.7 21.8 15.5 12.2 7.7 16.2 41.8

BMM

88.4 66 27.7 23 15.6 13.3 7.6 20.6 41.5

✓ KPK

86.8 63 31.2 22.9 15.7 12.2 7.9 15.8 42.5

wt chor 10<sup>4</sup> 10<sup>5</sup>

TC

TN

G

BW

Tail

TS

19 May

1100

NGO

3 big

81.4 105 (48.3) 29 22.2 15.4 11.2 7.5 49.2 13

BMM

3

88.8 103 (49.4) 27.7 23.7 15.85 13.2 7.9 48.35 19.35

✓ KPK

3

89 100 (46) 26.8 23.65 16.1 12.3 7.9 48.4 15.7

BMM = blue rump KPK (scream) = b. forehead NGO = b. 1° + chest (band)

31 May

0715 - 0900 Baby interaction watch - sucked All 1

Saw was blue rump =  $\overline{N}$  = (1379) J KYK (1380) (DB) LB

5 June

1040 Saw baby MRB = (1380) ? This must be eye

6 June

roost watch - bird in 86 b hole

8 June

morning ambush at 86 b hole - got 2 birds - breeder ♂ and ♀ 916 (was breeder ♀ at Lamb). I wanted babies, Philip wanted helpers.

10 June

0740 - 0945 Granary watch: Saw: 681, 1140, 1340, 1378, 1379, 1380. Maybe saw 1225. ♂ OB (?), ♂ YKY (?). Juv dom: blue butt &gt; 1380

14 June

1300: Saw baby 1380 1 hr here saw no juv interactions

18 June

1245 - 1406: 1379 &gt; 1378 (but ♀ pecked 1379)

∴ dom so far 1379 &gt; 1380

21 June

1015 Acorn Count: dead gran 1391

side gran 170

live gran 365

} total: 1826

29 June

pm Climbed 87 nest hole, 86 a hole (+ its neighbors) looking for a nest. Found none. I did however, fall out of the tree and hurt my left wrist. Saw all 3 juvs. Baby in 86 b hole as I leave.





1987

M. Stanback

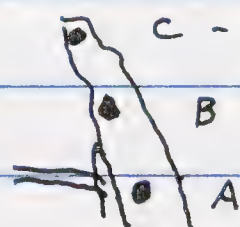
8

M. FormicivorusUA2HNHR

4 July

0830 Saw 1380 alone, moved to granary area - hello'd holes - no response, set up blind facing dead granary.  
 0910 1379 > 1380 (ie Bm > KLP) Gee, I hope I didn't get that turned around. Anyway, it was a gentle displacement - 1380 turned his head away & moved several inches, surrendering his pecking spot. No pecks between the 2 birds. Later, the b ♂ stole a piece of acorn from a baby (1378)

0955 Alarm call; I watched a bird fly from across the ravine to the 86 a nest tree and go to ~~the~~ hole A. It went in, stuck its head out of A, the head in and moments later stuck its head out B, where it eventually came out



1022: stop watch.

1025 whoa!



→ 1378 & 1379 engaged in an exactly equal mutual peck/kiss. (Non aggressive)

7 July

0930 - 1100 Tur watch: saw 1378 & 1379, no interactions (I think they're too independent now)  
 1340 was trying to steal 1379's food, 1379 fought back, soon 1140 came over & really beat up 1340.  
 Also seen: 1225, 1027.

6 Aug

R. Mumme reports ♂♂ 1140, 1222, 1225, 1027 at A1

25 Aug

~~at A1~~ At A1 I see the following UA2 ♂♂: 1140 & 1222. (others were probably here as well) So it seems UA2 helper ♂♂ are now A1 breeders.

1045 - 1115. census at dead gran from blind. Nothing.

11 Sept

1130 Hello'd holes - nothing.





1987 M. Stanback

9

M. Formicivorus

UAZ

HNHR

16 Sept 0815 Pretty sure I saw ♂ 1378 ( $\frac{NO}{nLB}$ ) Helloed holes. Nothing.

23 Sept 0836 - 0900 Watched 87a hole. Nothing. Also helloed holes near granary.

\*\* \* Group Update \* Helper ♂♂ 1140, 1222, 1225, 1340, 1026 (presumably), 1027, and J 1380 (♂) are at A1 as of 870810  $\pm$  1 week. J 1378 was seen at UAZ,  $\therefore$  probably a ♀. ♀ 1226 hasn't been seen since 870429 - probably dead, but let's not be hasty.

5 Oct 1040 Helloed holes - nothing. In contrast to several other groups, UAZ has next to no acorns stored

8 Nov 0900 - 1045 Watched dead granary. No action for  $\frac{1}{2}$  hr. Eventually saw 1378 (a ♀), 1379 + 1380 (both ♂), and ♂ 681. 1379 has a bad L wing (it droops out to the side when he sits) I saw these kids repeatedly. 1379 is especially stupid - he repeatedly dropped acorns into a crevice-hole, only to have them fall out the bottom - usually w/a couple other acorns as well.

5 Jan 1988 1100 Acorn Count: Dead gran : 6000  $\leftarrow$  too high  
limb under dead gran : 400  
live gran : 1800  
dead limb in east tree : 400  
total 8600  $\rightsquigarrow$  7600



4700

1/10/20

1/10/20

1987

M. Stanback

M. FormicivorusLower Arnold 2HNR

9 Jan

0945 Acorn Count : Burned tree 1281 }  
 Back area 416 } 1697

The burned tree has lots of new holes & is full wdk

24 Feb

1000 Acorn Count : Burned tree : 1670

Close back tree : 600

old nest w missing door

Far back tree : 237total 2507Birds seen :  $\frac{LB\ DB\ LB}{K\ W\ R}$  (1236) $\frac{M\ LB\ (DB?) }{OY\ O}$  (611)??♂  $\frac{R\ B\ W\ N}{OY\ O}$  (1234) $\frac{MOY}{OY\ O}$  (1237?)

26 Feb

1000 Saw ♀ 1371, ♂ 1236

27 Mar

Census - on &amp; off all am. Saw 611, 782, 1208, 1234, 1236, 1237, 1371. A nice catch. Some of these birds

were at near the BKOK - Bian border (As were the

Bian birds) The LAZ birds were spending the most

time in the big lone tree on the hill ~~over~~ gran tree

Also saw (I think) 1116. No mate guarding. nest tree ↑ log

Mystery bird (see Bian)

7 April

0810 - 0815 → Pair of swallows at 86 nest hole twice

during this time. ACWs rather vocal, but hard to

follow. Maybe some action in the woods. Watched til

0900. STARLINGS! One LAZ bird flew far

into the Bian - BKOK border. 11 horses here

0945 Well, well, Mate Guarding alot. Everyone's checking out all the holes in the burned granary!





1987

M. Stanback

2

M. FormicivorusLAZHNHR

(7 April) 1515 Climbed 86 hole. It looks fine inside, but the hole itself has been widened considerably! <sup>(main)</sup> I fear it's no good any more (do I treat it as ruined for NSS?) There were some feathers in a crotch near the hole with some as if someone got nailed not too long ago.

9 April 0900 lots of vocalizations here

10 April 1100 Bird flushed from 86 hole on arrival - despite its wide open hole. I brought plaster to fix the hole, but upon seeing the bird, decided not to. No eggs.

12 April 1305 Nice timing. From BKOK - Bian I spot the 86 hole and w/in 1 min a bird goes to the hole, sits 30 sec, goes in for twenty, leaves, then another follows. Climbed, nest empty. Must be tossing?

13 April 1430 Still empty.

14 April 1300 Still empty. Opened and chips in bottom don't look that new. Spied from A1 and 3 birds went into a shitty <sup>2nd entrance = broken side</sup> hole facing N, the highest hole in the highest limb of the burned snag. Bloody great.

1330 Not so fast, birds are now visiting the 86 hole.

15 April 1300 - 1315. Watched 86 hole. At 1310 a ♂ landed at the hole. Immediately another ♂ came over & started beating the shit out of the 1st ♂. He pecked away as the pair moved up the limb. Mounting & pecking. Attacker flew off. 1st ♂ stayed on limb awhile. A few mins later ♂ KW entered hole for @ 30 sec. Empty!





1987

M. Stanback

3

M. Formicivorus

LA2

HNHR

17 April 1430 Murphy's law in effect. Anyway, 1 egg in hole, #1.  
Cut new door (I tried widening last one, but still no go)  
Oh please don't let them abandon!!!!

18 April 1320 Egg #2.

19 April 1030 Easter Egg #3

20 April 1630 Egg #4

30 April 1715 No eggs pipped yet.

1 May am " Egg 3 has hole in it ∴ dead

2 May 0815 3 eggs hatched. 1 chick dead (4.0 g)

RL

LL

5.8

4.6

3 May 1100 8.4 4.8

4 May 1030 12.0

5 May 1030 15.0 (Katy reports fighting at the hole)

6 May 1100 20.7 Egg still there

7 May 1100 24.5 Most of egg still there.

8 May 1000 Link broke at the nest in yesterdays wind. No  
sign of baby (or dead adults) The hole may be  
salvageable. Cut it off a foot above & re install.

11 May I destroyed the hole attempting to salvage it.

13 May 1015 I find a hole they seem to be working on  
just inside the woods (fresh chips lying around) in the  
tree w all the wood leaning against it (5 facing hole)

19 May 1145 Yep, it's a nest (4 eggs) Didn't have keyhole saw or  
brace & bit, so I'll saw it next time.

28 May 1045 RL = 12 LL = 8.8 + 1 egg





1987 M. Stanback

4

M. FormicivorusLAZHNHR

29 May	1045	RL = 14.9	LL = 10.6	+ 1 egg
30 May	1100	17.9	13.2	+ 1 egg
31 May	0915	G = 22.4 (9.4)	LL = 10.9	+ 1 egg
1 June	1000	= <del>28.8</del> (10.45) 27.3	<del>28.8</del> (9.3) 22.4	+ egg
2 June	1000	34.1 (11.7)	28.5 (10.35)	+ egg
3 June	1035	G = 41.8 (12.85) 8.9	B = 35.5 (11.6)	+ egg
B banded <u>after</u> being weighed (see Brian notes for sighting)				
4 June	1110	G = 45.5 (14) 9.5	B = 39.1 (12.5) 8.1	no egg
5 June	1015	G: 49.2 (14.6) 10.2 (7.2)	B: 42.2 (13.2) 8.8	
7 June	1100	bird wt	char	1° 1° TC TN BW TS T
	G	65	4.9	16.2 11.15 7.2 4.2 5
	B	53.1		14.7 10.4 6.9 3.2
8 June	0515	62	7.5	16.9 11.5 7.25 6.1 7.1
		53	3.3	<del>16.9</del> 10.4 6.8 3.9
10 June	1000	74.5 42.5 15.2 16.2	18.25 <sup>inj some</sup>	12.8 7.6 11.8 14.1
		65.3 38 11.3	- <sup>alot</sup> inj	(11.7) 7 7.7 9.5
11 June	0950	77 49 19.8 21.1	-	13.1 7.4 12 18.4
		68.9 43 16	-	- 12.1 6.95 9 13
12 June	1010	84 54.5 23.4 26.8 19.6	13.3	7.6 12.4 21.3
	B	71 48 19.5 20.7	-	12.4 6.8 11.3 16.7
14 June	1150	G 83.1 67.5 25.4 38.2	20.9	14.55 7.65 14.6 28.5
	B	75.9 60 28.4 32 19	13.4	7.1 15.4 24.5
16 June	1220	G 84.9 78 21.8 49 21.45	15.1	8.0 17.5 34.5
	B	78 71 34 43.3 19.4 14.2	7.4	16.3 31.1
18 June	1440	G 83.5 88 23.3 59.7 22.1	15.65	8 21 41.5
	B dead	66.6 77 35.9 49.3 20.15	14.3	6.8 13.1 34.1





1987

M. Stanback

5

M. FormicivorusLA2HNHR

20 June 0645 82.2 95 21 67.7 22.7 15.95 8.25 20.5 46.3

21 June 1115 Acorn Count: dead gran: 1015  
 8<sup>th</sup> nest: 230 } total 1315  
 5 tree: 70

While counting I found 1208 dead in a hole. I climbed up and got her out. Her head and left wing were stuck inside the hole and her whole body was upside down. It was a hole in a very small diameter limb. I imagine she went in, tried to turn around, panicked, tried to back out, got her wing stuck and died a slow agonizing death. I hope no other bird was stuck in the hole with her (I didn't have the peeper. Her 6<sup>th</sup> l<sup>o</sup> was 120 mm, TC = 31, TN = 23.8, tail = 78.5. Metal = 902-42916.

Holy Cow! That's the breeder ♀! She looks like she's been dead for about a week. Hence dead baby?? Has there been a power struggle? Is this why BKOK ♀♀ were clumpy?

More bad news - the baby's been predated. I think it was mammalian, 'cause there were some (bloody) feathers w maggots on em. Geez, a day for death.

14 July 0815 NSS ht 615, CNH <sup>(19.4)</sup> 61, ang 58 f.h. CBH <sup>(21.7)</sup> 22.6, dir 150, asp 250, slop 15, VAOK live limb gran (no depr)

Also, on 21 June I buried the dead ♀ in a shallow grave.

I "dug" her up - she's just the same - a mummy. Point is: she could have been dead much longer than 1 week when I found her on 21 June (Cyndy saw her feed on           )





1987 M. Stanback

E

M. Formicivorus

LA2

HNHR

11 Sept 0930 Saw 1116 (I think) and a NOBA ♂ (5250)  
1100 Think I saw 5250 again, also saw 1234  
(R/L) go to a low hole in the dead granary  
repeatedly and come out w saw dust in his mouth.  
(I saw cast ~~off~~ in this one - the lowest hole. LA2 has  
lost the big knoll tree to A1. Still lots of acorns.

\* \* Group Update \* Following the death of ♀ 1208 on 87  
~~0600~~ 0600, ♂♂ 1116, 1234, 1236, 1237, and ♂  
5250 are now breeders with ♂♂ 611 and 782.  
♀♀ 1371 hasn't been seen since 870621, but no one's  
looked. Haven't yet seen new ♀♀ here. Shy.

5 Oct 10-1035 Saw ♂ 1236, ♀ 1371, maybe ♂ 1237.  
Point is: Fuch effect, H ♀ 1371 has prevented an  
influx of new ♀♀, thus ♂♂ are not breeders!

8 Nov 0830-0900 Watched w/o blind. Saw ♂ 1234, a ♀ (NOID),  
and a ♂ R/Y (maybe 1234) from far away. These birds  
range from Bian to the peak tree to U12 itself.

5 Jan 1988 Acorn Count: Dead gran 4700 }  
in the woods 1100 } 5800

(@ 250 had fallen, I put them back up)

whoops, found more (100)

total = 5900



29.3  
10

25.9

1987 M. Stanback

M. formicivorus

Bianca

HVHR

9 Jan 930 Acorn Count: 276 Tree is not very full and the old area is empty (WDR)

26 Feb 930 Gee Walt, where'd you find acorns? <sup>(or holes!)</sup> All I found was 25 in a tiny stub a good ways down the meadow and rather near the gully. Damn bees. Lotsa scoub jays

27 Mar am. Saw 1230, 1232. Bian birds were hanging out near the BKOK LA2 border. I also saw a mystery bird here  $\frac{M}{LB} / \frac{Y-K}{K(W?)}$ .

★ Get Acorn Count from Walt = 1 Mar 215 acorns

7 April 0815 Sev birds near BKOK including ♀  $\frac{M}{Y-L}$  or MY Is this the myst bird from last time? OK, now I just saw ♀ w  $\frac{M}{T}$ . And ♂ w  $\frac{LB}{DB-}$ . Am I confused or is this all fucked. A ♀ went to the last yrs (86) nest hole in the bee tree, staying in @ 1 min, (and coming out w a wood chip?) Now someone's in again. STARLINGS!!

25 April am. saw a bird leave from the vicinity of the nest - may have been a starling. I spied on the 86 hole from the gully from 1030 - 1050. Saw nothing. I heard activity earlier near 85 hole.

30 April Watched here twice this am for a total of @ 40 mins. Last yrs hole has a hole about 1 ft above it - in which there are starlings. I think I heard - saw ACW's go to the 86 hole. The 85 hole fell - looks like it happened last night (wet + windy)





1987 M. Stanback

2

M. formicivorus

Bianca

HNHR

- 13 May 1020-1050 1 ~~spy~~ looking for a nest. The birds are hanging out very close to BKOK (even near BKOK's new hole. The hole(s) in the 85 tree are being inspected by bluebirds. The 86 hole has starlings.
- 29 May 0945-1030 Looked for nest, no luck. They are hanging out down in the far end of the field. Flycats into one of ~~near~~ the 85 area holes.
- 3 June 1000 BYN/LB (?) Whoops, I think this is 1234 From LAZ.
- 25 Aug 1130-1200 Saw NOBA ♂, ♂ LB/Y = , ♀ LB/W = 1230?? and ♀ W/R = 1060 (?) Birds visited the bee tree nest hole twice! A nest??
- 11 Sept 0945-1045 Yes, there's a nest in the bee tree hole. They're incubating. There's at least 2 NOBA ♀♀ and I saw only 1232 in the ♂ category (he incubated 3 times in this hour.
- 13 Sept dawn - came to kill bees. Entrance too big to block.
- 16 Sept 0530 Covered bee nest entrance w dirt, then inserted Flea Fogger. Climbed the ACW nest to find, after all that work, 2 dead babies. Stupid rapidograph. Babies had coffeeberry seeds stuck to them. Babies looked as if dead 1-2 days. You wouldn't think they would abandon just because I stood under the nest for a bit on 13 Sept. One baby weighed 28.3 g, the other 24.9. They looked in good shape, though I didn't notice boluses and the birds stayed in the hole for @ 10<sup>min</sup> each bout.



FRSR nest holes 1987

"FRSR" (?)

late

FRSR  
1st

317

107

30

12

—

55

—

178

"live"

no eyes

hol ht



cnh

95

dep

38

dir

350

asp

240

ang

47

from horiz

slop

13

CBH

248

blue

dead limb

no gran

13  
—  
26

M. FormicivorusBiancaHVHR

\* \* Group Update \* Way to census Katy. Christ.  
 ♀ 993 disappeared between 861116 and 870816,  
 ∴ call it 870416  $\pm$  ~~4~~ mos. ♀ 1060 disappeared  
 between 870128 and 870826 = 870528  $\pm$  3 mos.  
 ♂ 1180 disappeared 870527  $\pm$  2 mos. ♀ 1230  
 disappeared 870527  $\pm$  2 mos (I thought I might  
 have seen both 1060 and 1230 on 870825, but I  
 think I was mistaken, for 2 NOBA ♀♀ were  
 dominating the nest on 870911 (5283 + 5284)  
 Well, ♂ 1232's still there.

Nest record

est LED 870829

est hat dat 870910

2 chicks found dead 870916

5 Jan 1988 Acorn Count : 1900





1987 M. Stanback

M. Formicivorus

Forsaken Ridge

HVHR

- 14 April 0630 Mouse nest in hole cleaned out (Keith reports activity here)
- 26 April 1430 Empty & not looking used.
- 13 ~~April~~ <sup>May</sup> Keith reports bird in a hole above box 340!
- 15 May 1430 A NOBA ♀ Flushes from the top of the 3 holes. }  
I hear kids. I misjudged the delicacy of the door }  
area and the door splits. Jerry rig + DAP will }  
do til tomorrow. Anyway, so I open it and it }  
contains 3 Freshly hatched (today) chicks + their }  
egg shells + 1 unhatched egg. So much for an }  
aviary switch! I of course left weighing gear, so }  
no day 0 wt. Keith reports another ACW nest near }  
box 344. }
- 16 May Bird in hole on arrival, so they don't mind the cut out.  
(It was a banded ♂) Keith showed me the other  
active hole further uphill. It was empty but in good  
shape (Fresh chips) Back to FRSR to weigh kids  
1330 RL = ~~8.98~~ LL = ~~8.99~~ RW = 7.05 LW = ~~5.05~~  
whoops, thats 7.98 7.99 8.05 4.05
- 17 May 1515 RL = 12.7 RW = 13.8 LL = 12.1 3.59  
♂ <sup>M</sup>/<sub>WR</sub> seen (not sure of bands, but something like that) ↓  
runt gone
- 18 May 1330 RL = 14.9 RW = 15.1 LL = 16.1
- 19 May 1500 19.2 18.7 19.5
- 20 May 1320 22.2 23.3 24.6
- 22 May 0930 29.9 32.3 32.7
- 24 May RL + RW removed to aviary ↓  
1400 Added last baby to aviary. 46.2





1987 M. Stanback

2

M. Formicivorus

FRSR

HNHR

6 June checked both holes and both areas here this afternoon - nothing (though there was a bird at the new hole at the new area).

13 July 1545 ~~6.1~~ wt chor 1's 1° TC TN BW TS T 1°  
W 94.5 95 28.3 67.8 23.5 16.1 8.05 17 40.5  
Y 64.5 55 21 31.4 18.6 12.5 7.3 12 23.6 (2)

15 July 1435 95 101 29 76.3 24.05 16.8 8.4 16 46.9 ? (3)  
1436 68.3 66 ~~23.5~~ 41.5 19.2 13.2 7.3 11.8 30.1 (2)  
1435 hematocrit 37, 37  
1436 " 23, 23.5, 24 wow! Low!  
See back of Bian p. 2 for FRSR NSS



1 0  
78.5  
20.9  
27.9



28 May ♀ eats feces  
babies battling w necks, als shoving in  
circles w shoulders.

1987 M. Stanback

1

M. Formicivorus

Aviary

HNHR

- 9 May Egg # 1 laid
- 10 May Egg # 2 laid
- 11 May Egg # 3 laid
- 20 May Put <sup>18</sup> crickets into the aviary. Checked eggs: 2 of the 3 are infertile. 1 need babies.
- 1915 Cricket feeder is empty
- 21 May 1200 crickets gone, put in new ones. Egg not hatched
- 22 May am Terry started brooding w/in 30 sec. But no feedings.
- 1715 RL = 31 RW = 31.4. Too low. Fed too many crickets.
- 23 May 0600 - 0630 watch. 6 Feedings. 5 by Terry. 4 of the feedings went to a particular baby. Only one baby is fed per visit. The babies are hungry and fighting. (I've been feeding every night)
- 24 May 1400 Added FRSR baby = G = + = 46.2 (LL)  
(fed em this am) P = 1 = 49.2 + died  
- = \* = 44.5 + died
- ♀ was storing crickets in a log
- 25 May Rain. Inside of box was wet. Fed by hand
- 26 May More rain. Babies damp. Hand Fed. However, when I put crickets in the bowl, Terry took one to the kids immediately!
- 27 May 0615 Found P baby dead in middle of box. The other 2 were fine at the back of the box. It seems they are only willing to brood there (or maybe it's a majority thing). See if brood reduction is more prevalent in horizontal holes (eg LAZ 85)





1987 M. Stanback

2

M. Formicivorus

Aviary

HNHR

28 May pm 1730-1800 ♀ eats feces. Babies battling w necks, also shoving in circles w necks.

29 May am. Watched after filling dish w crickets. Again, ♀ ate some feces. Also, she's really into brooding. I shoulder fight seen in kids. I think they get their injuries on the cuticle from the adults. The adults tap em here to get their attention.

30 May 1830 Big baby got the first 4 feedings, the small one pecked him violently twice at the 4th. Big was getting slouchy, so then small got to eat. Also shoulder battles.

31 May Noticed that not all crickets were used

1 June 1215 Dead baby in box. Unbanded (smelly + a bit pecked up) why??

2 June 1200 The kid is spending alot of time with it head outstretched (Fucking rapidograph) along the wall of the box (facing upwards) Orienting toward the light?

5 June 1419-1429 Hanging on wall! (fell off at 1429) Then just sat + peeped. Made several sgee-turrs. Terry never fed (I stayed 'til 1455)

10 June 1815 76.5 95 27.7 71 21.95 14.8 7.3 15 44.5

11 June 1740 77.4 22.5 15.15

20 June 0800 Akbar has fledged. On day 36 of his life. <sup>wrong</sup> Katy says he's been out.  
1330 78.8 129 24 17 7.2 69.5

21 June 0700 Ptery tried to feed Akbar a cricket. Akbar didn't want it, refused repeatedly, and finally mounted Ptery!





1987

M. Stanback

3

## M. Formicivorus

AviaryHNHR

25 June 1740 wt=74 TC=24.7 TN=17.4 BW=7.1 Ch=140 T=73

2 July 1810 75 25.8 18.75 7.25 - - 75

2 Aug 1500 77.5 27.6 20.65 7.0 140 78

17 Aug 1810 83 27.9 20.9 - 140 78.5

7 Sept 1630 <sup>Akbar</sup> 7 81 29.2 22.2

Terry 31.25 24.1

"Baby" 27.8 21.1 broken tip on beak

10 Oct 1130 Akbar 29.9 22.35

Soapdish 29.55 23.4

18 Oct Walt took Pteoy, Akbar, Soapdish, Lucia &amp; Baby to AZ.





1986  
1997

M. Stanback

Sialia mexicana

HNHR

16 Oct 0940 Blm Pond 11-12 bluebirds foraging together in the pond - gleaning insects from the drying mats of aquatic vegetation  
1000 - 1030 between low barn + blm pond

2 unbanded ♀♀

♀  $\frac{M_v M_v}{M_v M_v}$

♂  $\frac{R DB}{n DB}$

♀  $\frac{R R}{M R}$

♂  $\frac{R B-W(n)}{M_v n}$

♀  $\frac{O R}{m R}$

1030 - 1100 Blm Pond (until kestrel came)

♀  $\frac{c}{m O}$

maybe ♂  $\frac{—}{n}$

♂  $\frac{O}{m O}$

♀  $\frac{O?}{y m}$

♀  $\frac{DB m}{DB LB}$

1 unbanded ♀

27 Jan 0730 Noticed a pair checking out box 158.

1000 4 bb on wire above 158. One had  $\frac{w m}{R w}$  (that may be ACW style, so check  $\frac{m w}{w R}$ ) They all seemed to get along well enough, but then there was a ♂ chase. One pair flew to the Griffins yard, while an unbanded pair stayed and flew down to the box.



THE HISTORY

The history of the world is a long and  
various one, and it is not possible to  
give a full account of it in a single  
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a single volume.

1987

Mark Stanback

2

Sialia mexicanaH.N.H.R.

- 29 Jan 0930 4 BB's in Griffiths pear tree
- 20 Feb 1430 Banded ♂ and NOBA ♀ hanging around in front of Red House. ♂ flew after another bb I heard beside Red House.
- 14 Mar Repaired (replaced) box at Low barn, and box 209 on Haystack hill. Found the following boxes empty: 169, 20, 24, 26, 28, 320, 319, 27, 25, 330, 199, 18, 355. Box 29 had a cache of acorns. Box 23 had a mouse nest, and is terrible condition. Box 19 by Blom Pond has a nest start (grass and several quail feathers) Rain
- 15 Mar Rain, wind. Repairs at CVette, Creche Canyon.
- 16 Mar BB roosting in box 179. Sev pairs chasing at Griffiths
- 17 Mar Sev pairs chasing at Griffiths.
- 24 Mar Box 99 w wren nest start.  
Box 221 needs repairs.  
Box 363 w 1 ♂, 2 ♀♀ (♀ on box top)
- 28 Mar (Katy says box at KOUT needs repairs)
- 8 April Box 213 bb start.
- 9 April Box 5 w pair  
25 (near 98) w bill clack pair nearby.
- 13 April Box 26: nearly completed (unlined) nest.
- 15 April LA2 box w unlined nest
- 19 April " "  
259 wren start  
260 wren on box, a few sticks
- 26 April LA2 4 eggs / KOUT 2nd egg laid / NOBA ♂ LA2

Box 49  
wren  
start



Summary

The first part of the report deals with the general conditions of the country during the year. It is found that the weather was generally favorable, with a few exceptions. The crops were well grown, and the stock was healthy. The people were contented, and the country was peaceful. The second part of the report deals with the financial condition of the country. It is found that the government was able to meet its obligations, and the people were able to pay their taxes. The third part of the report deals with the social condition of the country. It is found that the people were generally healthy, and the country was peaceful. The fourth part of the report deals with the political condition of the country. It is found that the government was able to maintain its power, and the people were able to elect their representatives. The fifth part of the report deals with the military condition of the country. It is found that the army was well equipped, and the navy was strong. The sixth part of the report deals with the educational condition of the country. It is found that the schools were well attended, and the teachers were well paid. The seventh part of the report deals with the religious condition of the country. It is found that the churches were well attended, and the ministers were well paid. The eighth part of the report deals with the judicial condition of the country. It is found that the courts were well attended, and the judges were well paid. The ninth part of the report deals with the administrative condition of the country. It is found that the government was able to maintain its power, and the people were able to elect their representatives. The tenth part of the report deals with the general condition of the country. It is found that the country was peaceful, and the people were contented.

1987

M. Stanback

Empidonax difficilisRed House PorchHNHR

- 21 April First egg laid
- 22 April Second egg laid
- 23 April 3<sup>rd</sup> egg
- 24 April 4<sup>th</sup> egg
- 4 May 1100 4 eggs
- 10 May eggs have hatched! Could have been 9 May
- 26 May 0540 Babies Fledge. It was unavoidable. They were at the on the beam stage. I Walked up onto the porch and they flew off into the cold rain. I fear they will be 4 dead flycatchers by tonight.
- 29 May An egg in the nest! And I accidentally break it!
- 30 May pm. No egg in nest
- 31 May 1330 An egg! So they are recycling! But so soon?  
 I fear the babies must have died immediately. So...  
 remember not to remove the nest! (Oh, did I say...  
 the black phoebes at CV Failed - dead babies.)  
 Hey, they recycled rather quickly last year too, didn't they?
- June  
 3 ~~May~~ (clutch of 3 (assume LED = 2 May)  
 17 June hatched (3)
- 2 July 1630 Babies Fledged without provocation. (nte!

day  
not off



1801  
B 29.77  
N-B 22.9  
W-C 145  
80.5 gms

CVAR  
7 1042

31.9  
24.65

140  
79  
79.5 wt

107a 146, 73  
31.6  
24.2  
8.6  
85.3

1987 M. Stanback

## Bird Record

start 1 June

HNHR

- 11 June Swifts : FAAR (White-throated)  
Cliff swallow : nest building at Museum.
- 12 June Turkeys (6) Gate Field  
Turkey (1) CVGR  
Baby Quail Arnold cabin  
recently Fledged scrub jay - Horse ranch.  
Turkeys : CVGR sev adults & lotsa kids  
Baby Quail - Gate Field Lane
- 13 June Rufous hummer - Red House  
Turkey hen w about 8 kids (rather young) : Gazebo  
Turkey : 1500 Lane  
Last black-chinned hummer fed at 1946, left area at 1947.
- 14 June BK Hd Grosbeak Fledglings (that noise)
- 15 June Turkey : 1500 Lane  
Baby Quail : gate - both on way out & in
- 27 June Morning dove ground nest in Central Canyon, 2 eggs.  
W. Kingbird nest in powerline electric stuff toward Blm Pond  
Cal. Thrasher - School House (another one lives by bunk house)
- 1 July Allen's hummer - Red House
- 3 July " "
- 2020 Was it a hummer zipping by?
- 6 July Oriole (~~It think so~~) Al (heard it)
- 7 July Oriole : KOUT
- 9 July Oriole : Plge (Nancy P. heard one there on 10 July)
- 12 July Rufous hummer : Red House  
Flushed the fledgling Mourning Dove off the nest (from 27 June)
- 15 July 0630 Oriole at Red House // heard
- 17 July 0930 Mockingbird on Hastack Hill!





1987

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## Bird Record

HNHP

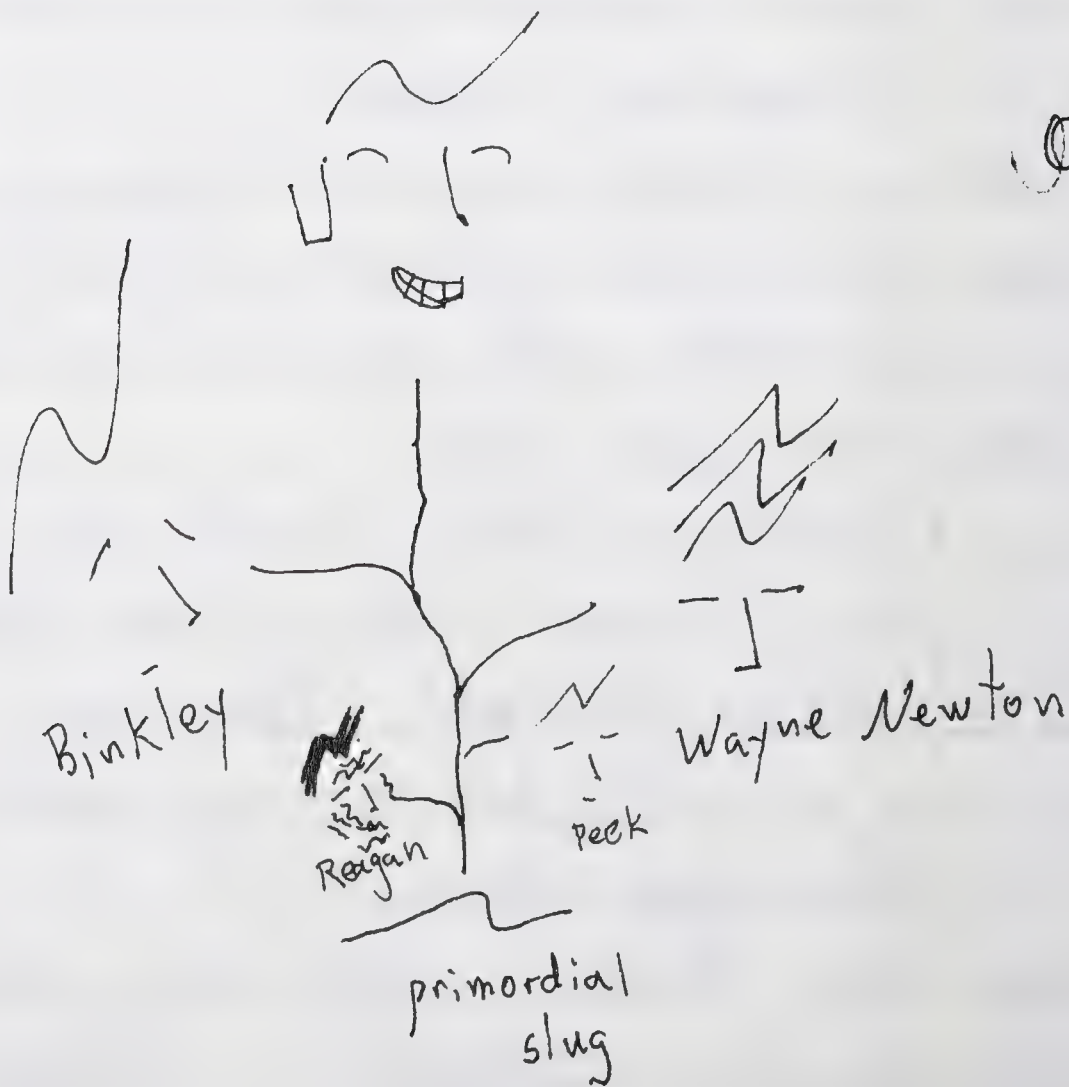
- 8 Aug Road Runner : at cabin ! My first here.
- 17 Aug Oriole (9 or imm ♂) Walt's house. 0800
- 23 Aug Saw Screech Owl at R1
- 24 Aug Heard " " " at 0830. Late!  
Been seeing lotsa Thrashers around!
- 28 Aug Golden eagle over Hastings  
W. flycatcher ~~thru~~ Madronne canon.
- 30 Aug Road Runner : Griffin's yard, moved toward-by Lichen lab - at one point jumped in air to try to catch butterfly.
- 17 Sept Magpies at Blm Pond (heard, didn't see)
- 18 Sept " Also swallows (lots) at Blm Pond.  
Suddenly seeing lotsa bluebirds, and yard thrasher bold  
Says Phoebe, lab
- 19 Sept Golden Eagle : Corral Viejo
- 22 Sept Chestnut backed chickadees - w/ bush t. 's : Finch.  
(2 tarantulas (v Road))
- 24 Sept am. Heard magpies at Blm pond.
- 28 Sept Red breasted sapsucker (lagetti) : W Gate (rasp)  
Twice today coulda sworn I heard a mockingbird at Griffin's.
- 29 Sept Mockingbird : Knoll  
(Starlings at Marf, Arnold, Knoll, <sup>Blm!</sup> etc) After writing this I discover starlings have taken over Y's nest and beat up the baby. There was a pair of starlings in a FAAR hole a couple weeks ago. Bastards.  
Yellow bellied sapsucker : Y
- 30 Sept Say's Phoebe : upper barn - garage. Lotsa swallows.
- 1 Oct Say's Phoebe (Haystack), Mocking bird (Knoll)
- 6 Oct " (Pump)





26 H

Elvis



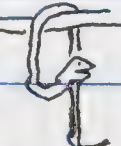
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Herp Record

start 1 June

HNHR

- 1 June Racer - LHA Y
- 2 June ~~Gerrhonotus~~ - LAZ Elgaria  
Garter snake - aviary
- 3 June Gopher snake - in Dark Hollow nest!
- 4 June " (?) - Fuch
- 8 June King snake - Red House  
Gopher snake - Lane 1500 (radio)  
Baby king snake - dead - Lane 1500  
Ring-necked snake - Bunk House
- 9 June Racer - FRSR  
Skink - Y
- 12 June Rattlesnake - killed on lane - Horsetail. About 1 ft, 1 rattle + button  
Skink - Red House
- 15 June Gopher snake - Buckeye (at the granary)
- 16 June King Snake - 1800 Lane
- 18 June Elgaria - A1  
Skink - Y
- 25 June Elgaria - Red House Living Room! Couldn't catch him. (a baby)
- 26 June Elgaria - A1
- 3 July 1633 hear squeaks on porch, run out to see kingsnake w Myotis by the head. Finish swallowing it by 1645. Wing was the last to go in. After finishing it, he investigated some cracks & crannies there at the over-hang (He swallowed the bat while looped singly over a pipe →   
He finally descended via the grapevine @ 1715. Caught him and put him in aquarium. Did not palp. (Thus the bat was merely swallowed, and not constricted.)





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Mammal Record - starting 1 JuneHNHR

- 1 June Bobcat - Radioactive
- Black Tailed Jackrabbit - CVZ → R. Mumme
- 4 June Deer discovers Red House Buckeye & eats it.
- 7 June 1st deer twins live seen this year - A1
- 8 June Gray fox - Red House (eating entrails)
- 9 June Mole - Lower Barn
- 10 June Coyote - Buckeye (heard)
- 11 June bat - in hole at FAAR (Myotis)
- 12 June Pigs : 5 on side of Red Hill, along Chongo path
- 13 June Jackrabbit : CVZ canyon
- 14 June Pigs : adult(s) & lots kids : UA2
- 15 June Pigz (2) : adults, Red Hill, along Chongo path
- Gray Fox - Lab parking lot - at 1630!
- 16 June Wood rat : dead on Arnold road near cabin (fell?)
- 27 June Striped skunk : Arnold road (above Flats)
- 28 June Deer twins w uncollared mom : Red House
- 29 June Pigs : ~~Buckeye~~ - Plan Flats 2 adults 3 old kids (1 kid <sup>bad leg</sup> hind leg)
- 30 June Bobcat : Gate (1500) pm
- 1 July Bobcat w large ground squirrel walked from Blm pond N to bbbox 172, where it climbed tree & finished killing the squirrel. [Loretta saw a bobcat kill a squirrel on 2 July]
- 3 July Watched king snake kill & eat a roosting myotis. See herp record.
- 5 pigs at Buckeye
- 7 July Myotis : Found dead roosting in my moped
- Pig killed a PLAN. Young ♂ - had previous bullet hole in its head - plus a broken leg.
- 14 July Bobcat : Lane - below 1800





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~~XXXXXXXXXXXX~~  
Pituophis melanoleucus  
 Gopher Snake

HNHR

- 8 June 1250 released radioed snake at creek at post 14  
 band 2, channel 7, Freq 0, (freq 151.450)
- 9 June 0940 still down gopher hole from yesterday. Radio ~~fucked~~
- 11 June 1130 " " " 10 June pm. The  
 radio signal is weak & wierd. Only blipped a couple times  
 1430 Still in same hole. Radio still wierd (but better-  
 "twee" worked itself up to blip @ every 15 sec  
 2000 Still in same hole. Radio still fucked (& its cold)
- 12 June 1130 "  
 1430 "  
 1700 "
- 13 June 1230 Same hole, but now the radio works Fine!  
 1700 "
- 14 June 1430 "
- 15 June 0830 "  
 1630 "
- 20 June 1245 Dug up radio (ie there was no snake around it - it  
 was also rather clean - could it have been regurgitated  
 rather than shat out? I made ready to put the  
 radio in the Dark Hollow snake, but decided to let  
 him eat first.
- 21 June 1300 Put in radio (thinking he had eaten the mouse - which  
 he hadn't, because it escaped)  
 1430 Tried force feeding a dead mouse - was not interested.
- 23 June It got > 100° F today; snake died. Nancy didn't know it  
 had a radio and threw it behind the house. Disappeared
- 24 June Can't get a signal w Pat's radio.



—

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2038 33

















